1937

University of Maine, Orono, Maine, Catalog Number with Records of the Sessions of 1936-1937

University of Maine

THE MAINE BULLETIN

Vol. XXXIX APRIL, 1937 No. 11

University of Maine

Orono, Maine

Catalog Number with Records of the Sessions of 1936-37

Announcements for the Sessions of 1937-38

THE UNIVERSITY PRESS
ORONO, MAINE
1937

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Calendar

1937

January 5, Tuesday, Christmas Recess ends, 8:00 A.M.
January 27, Wednesday, Final Examinations begin in Arts and Sciences and Education.
January, 29, Friday, Final Examinations begin in Agriculture and Technology.
February 5, Friday, Final Examinations end. End of Fall Semester, 5:05 P.M.

SPRING SEMESTER

February 6, Saturday, Registration 8:00 A.M. to 12:00 M.
February 8, Monday, Spring Semester begins, 8:00 A.M.
February 22, Monday, Washington's Birthday, a holiday.
March 26, Friday, Spring Recess begins, 11:30 A.M.
April 6, Tuesday, Spring Recess ends, 8:00 A.M.
May 24, Monday-May 26, Wednesday, Entrance Examinations.
May 31, Monday, Memorial Day, a holiday.
June 1, Tuesday, Final Examinations begin in Arts and Sciences and Education.
June 2, Wednesday, Final Examinations begin in Agriculture and Technology.
June 9, Wednesday, Final Examinations end.
June 11, Friday, Class Day.
June 12, Saturday, Alumni Day.
June 13, Sunday, Baccalaureate address.
June 14, Monday, Commencement.

SUMMER SESSION

July 6, Tuesday, Registration 8:00 A.M. to 12:00 M. and 1:30 to 4:30 P.M.
August 13, Friday, Summer Session ends, 12:00 M.

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FALL SEMESTER

September 13, Monday-September 14, Tuesday, Entrance Examinations.
September 15, Wednesday, University opens for freshmen.
September 20, Monday, Registration for transfer students, 10:00 A.M.-12:00 M. and 2:00-3:00 P.M.

September 21, Tuesday, Uuiversity opens for upperclassmen. Registration 8:00 A.M.-12:00 M. and 1:30-3:00 P.M.
November 24, Wednesday, Thanksgiving Recess begins, 11:30 A.M.
November 29, Monday, Thanksgiving Recess ends, 8:00 A.M.
December 17, Friday, Christmas Recess begins, 11:30 A.M.

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January 4, Tuesday, Christmas Recess ends, 8:00 A.M.
January 26, Wednesday, Final Examinations begin in Arts and Sciences and Education.
January 28, Friday, Final Examinations begin in Agriculture and Technology.
February 4, Friday, Final Examinations end. End of Fall Semester, 5:05 P.M.

SPRING SEMESTER

February 5, Saturday, Registration 8:00 A.M. to 12:00 M.
February 7, Monday, Spring Semester begins, 8:00 A.M.
February 22, Tuesday, Washington's Birthday, a holiday.
March 26, Saturday, Spring Recess begins, 11:30 A.M.
April 5, Tuesday, Spring Recess ends, 8:00 A.M.
May 23, Monday-May 25, Wednesday, Entrance Examinations.
May 31, Tuesday, Final Examinations begin in Arts and Sciences and Education.
June 1, Wednesday, Final Examinations begin in Agriculture and Technology.
June 8, Wednesday, Final Examinations end.
June 10, Friday, Class Day.
June 11, Saturday, Alumni Day.
June 12, Sunday, Baccalaureate address.
June 13, Monday, Commencement.

Board of Trustees

Edward Everett Chase, B.A., President	Portland
Term expires January 22, 1943	
Thomas Edward Houghton, Clerk	Fort Fairfield
Term expires May 6, 1941	
Bertram Everett Packard, B.A., LL.B., Ed.D., ex officio	Augusta
*Hosea Ballou Buck, C.E.	Bangor
Term expires July 18, 1939	
Frank Porter Washburn	Augusta
Term expires January 25, 1939	
John Thomas Gyger, M.S.	Portland
Term expires November 20, 1940	
Eugene Boutelle Sanger, Ph.B., M.D., F.A.C.S.	Bangor
Term expires November 20, 1940	
Raymond Webber Davis, B.A.	Guilford
Term expires July 8, 1942	
William Stockdale Nutter	Sanford
Term expires June 5, 1943	

Executive Committee, Buck, Packard, Washburn

* Deceased.

Officers of Administration

OFFICERS OF THE UNIVERSITY

PRESIDENT. Arthur Andrew Hauck, Alumni Hall; Campus.
DEAN OF THE UNIVERSITY. James Norris Hart. (On leave of absence)
DEAN OF MEN. Lamert Seymour Corbett, 27 Rogers Hall; Campus.
DEAN OF WOMEN. Edith Grace Wilson. 16 Stevens, South; 6 North Main Street.
REGISTRAR. James Adrian Gannett, Alumni Hall; 166 Main Street.
ASSISTANT REGISTRAR. Evelyn Taylor, Alumni Hall; 225 Main Street.
RECORDER. Addie Matilda Weed, Alumni Hall; Veazie.
DIRECTOR OF ADMISSIONS. Percy Fremont Crane, Alumni Hall; 4 Summer Street.
LIBRARIAN. Louis Tappe Ibbotson, Library; University Place.
UNIVERSITY PHYSICIAN. W. C. Hall, M.D., 20 Fernald Hall; Mill Street.
TREASURER. Frederick Shaw Youngs, Alumni Hall.
TREASURER EMERITUS. Charles John Dunn, 114 Main Street.
PURCHASING AGENT. Edward Havener Kelley, Alumni Hall; 85 Main Street.
ACCOUNTANT. Irving Pierce, Alumni Hall; 34 Sixth Street, Old Town.
STEWARD. William Carl Wells, Alumni Hall; 2 Middle Street.
ALUMNI SECRETARY AND EXECUTIVE SECRETARY, ENDOWMENT AND DONATIONS. Charles Edward Crossland, 11 Fernald Hall; 144 College Road.
DIRECTOR OF PLACEMENT BUREAU. Philip Judd Brockway, 12 Fernald Hall; 67 North Main Street.
CATALOG EDITOR. Alfred Carleton Andrews, Acting Editor, 140 Stevens Hall; 60 Oak Street.

OFFICERS OF DIVISIONS OF THE UNIVERSITY

COLLEGE OF AGRICULTURE. Arthur Lowell Deering, Dean, 16 Winslow Hall; 160 College Road.
COLLEGE OF ARTS AND SCIENCES. Edward Jones Allen, Dean, 100 Stevens Hall; 378 College Road.

SCHOOL OF EDUCATION. Olin Silas Lutes, Dean, 24 Stevens, South; College Road.

COLLEGE OF TECHNOLOGY. Paul Cloke, Dean, 12 Wingate Hall; 49 Forest Avenue.

GRADUATE STUDY. George Davis Chase, Dean, 140 Stevens Hall; 143 Main Street.

SUMMER SESSION. Charles Alexius Dickinson, Acting Director, 31 Stevens, North; Bennoch Street.

AGRICULTURAL EXTENSION SERVICE. Arthur Lowell Deering, Director, 16 Winslow Hall; 160 College Road.

MAINE AGRICULTURAL EXPERIMENT STATION. Fred Griffee, Director, Holmes Hall; 75 Bennoch Street.

TECHNOLOGY EXPERIMENT STATION. Paul Cloke, Director, 12 Wingate Hall; 49 Forest Avenue.

OF THE DEPARTMENTS

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT. Professor Merchant, 36 Winslow Hall; 39 Mill Street.

AGRICULTURAL EDUCATION. Professor Hill, 35 Winslow Hall; University Place.

AGRONOMY AND AGRICULTURAL ENGINEERING. Professor Chucka, 26 Winslow Hall; 65 Forest Avenue.

ANIMAL INDUSTRY. Professor Corbett, 27 Rogers Hall; Campus.

BACTERIOLOGY AND BIOCHEMISTRY. Professor Hitchner, 13 Winslow Hall; 51 Bennoch Street.

BIOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Dove, Holmes Hall; 142 Park Street.

BOTANY AND ENTOMOLOGY. Professor Steinmetz, 24 Coburn Hall; 38 North Main Street.

CHEMISTRY AND CHEMICAL ENGINEERING. Professor Bradt, 329 Aubert Hall; 6 North Main Street.

CHEMISTRY (AGRICULTURAL EXPERIMENT STATION). Professor Tobey, Holmes Hall; 5 Pond Street.

CIVIL ENGINEERING. Professor Evans, 21 Wingate Hall; 8 Kell Street.

CLASSICS. Professor Chase, 140 Stevens Hall; 143 Main Street.

ECONOMICS AND SOCIOLOGY. Professor Ashworth, 46 Stevens, South; 88 North Main Street.

EDUCATION. Professor Lutes, 24 Stevens, South; College Road.

ELECTRICAL ENGINEERING. Professor Barrows, 2 Lord Hall; 40 Myrtle Street.

ENGINEERING DRAFTING. Professor Kent, 30 Wingate Hall; 16 Sixth Street, Bangor.

ENGLISH. Professor Ellis, 200 Stevens Hall; 29 Park Street.

ENTOMOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Patch, Holmes Hall; Braeside, College Road.

FORESTRY. Professor Demeritt, 24 Winslow Hall; 15 University Place.

GERMAN. Professor Drummond, 325 Stevens Hall; 61 Bennoch Street.

HISTORY AND GOVERNMENT. Professor Whitmore, 150 Stevens Hall; 31B. Mill Street.

HOME ECONOMICS. Professor Greene, 23 Merrill Hall; 6 University Place.

HORTICULTURE. Professor Waring, Horticulture Greenhouse; 24 University Place.

MATHEMATICS AND ASTRONOMY. Professor Willard, 130 Stevens Hall; 100 Bennoch Street.

MECHANICAL ENGINEERING. Professor Sweetser, 1 Lord Hall; 109 Main Street.

MECHANICS. Professor Weston, 1 Fernald Hall; College Road.

MILITARY SCIENCE AND TACTICS. Lieutenant Colonel Alcott, Armory; 6 North Main Street.

MUSIC. Professor Sprague, 15 Stevens, North; 217 Union Street, Bangor.

PHILOSOPHY. Professor Levinson, 335 Stevens Hall; 78 North Main Street.

PHYSICAL EDUCATION. Professor Wallace, Memorial Gymnasium; 45 Park Street.

PHYSICS. Professor Fitch, 200 Aubert Hall; 32 College Road.

PLANT PATHOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Folsom, Holmes Hall; 63 Forest Avenue.

PSYCHOLOGY. Professor Dickinson, 31 Stevens, North; Bennoch Street.

PUBLIC SPEAKING. Professor Bailey, 240 Stevens Hall; University Place.

PULP AND PAPER TECHNOLOGY. Professor Bray, 135 Aubert Hall; 47 Forest Avenue.

ROMANCE LANGUAGES. Professor Fundenburg, 9 Stevens, North; 66 College Road.

SHORT COURSES. Director Loring, 11 Winslow Hall; 79 Bennoch Street.

ZOOLOGY. Professor Murray, 16 Coburn Hall; 184 Main Street.

OF THE DORMITORIES

BALENTINE HALL, Ruth Esther Cope, Superintendent.
A.B., Mount Union College, 1932; M.A., Syracuse, 1934.

BALENTINE HALL, Edna Lawton Sheraton, Assistant Superintendent.
R.N., New England Deaconess Hospital, 1909.

COLVIN HALL, Julia Delacour Hill Whittlesey, Superintendent.
A.B., Vassar, 1896; M.A. in Educational Guidance, New Jersey State Teachers College, 1935.

MAPLES, Gertrude Hayes, Superintendent.

NORTH HALL, Mabel Powell McGinley, Superintendent.
B.S., Maine, 1905.

SOUTH HALL, Nelle Alexander, Superintendent.
B.P., State Normal School, Kirksville, Missouri, 1906; B.S., University of Wisconsin, 1922; A.M., Columbia, 1926.

MAJOR ADMINISTRATIVE ASSISTANTS

PRESIDENT'S OFFICE. Florence Elizabeth Johnson, Secretary to the President, Alumni Hall.

DEAN'S OFFICE, COLLEGE OF AGRICULTURE. Yvonne Morin, Secretary to the Dean, 16 Winslow Hall.

DEAN'S OFFICE, COLLEGE OF ARTS AND SCIENCES. Kathleen Kelley, Secretary to the Dean, 100A Stevens Hall.

DEAN'S OFFICE, SCHOOL OF EDUCATION. Thelma Demont, Secretary to the Dean, 22 Stevens, South.

DEAN'S OFFICE, COLLEGE OF TECHNOLOGY. Mildred French Creamer, Secretary to the Dean, 12 Wingate Hall.

DEAN OF MEN'S OFFICE. Geneva Morton, Secretary to the Dean, 27 Rogers Hall.

TREASURER'S OFFICE. Dorothea Lewis Miller, Secretary to the Treasurer, Alumni Hall.

DIRECTOR OF ADMISSIONS OFFICE. Paulyne Rowell, Secretary to the Director, Alumni Hall.

DIRECTOR'S OFFICE, MAINE AGRICULTURAL EXPERIMENT STATION.
Mary Norton Cameron, Secretary to the Director, Holmes Hall.

Other Officers

LIBRARY

SMITH, DOROTHY, Reference Librarian.
B.S., Simmons School of Library Science, 1921.
REED, MARY FLORENCE, Cataloger.
B.A., Maine, 1929; B.S., Simmons School of Library Science, 1930.
PALMER, SALLY, Circulation Assistant.
B.A., Maine, 1927.
LITTLEFIELD, BARBARA STURGIS, General Assistant.
B.A., Bates, 1935; B.S., Simmons School of Library Science, 1936.
GRAY, LOUISE GRINDLE, Clerk.

HEALTH SERVICE

CASTONGUAY, BLANCHE IMELDA, Resident Health Nurse.
R.N., Queens Hospital, Portland, 1928.
O'LEARY, HELEN LOUISE, Resident Health Nurse.
R.N., Eastern Maine General Hospital, Bangor, 1933.

BUILDINGS AND GROUNDS

ROSS, JAMES ALBERT, Superintendent of Buildings and Grounds.
DEMPSEY, JOHN CARROLL, Storekeeper.
GLOVER, JOHN WHITE, Steam Engineer.
B.S., Maine, 1915.

Faculty of Instruction

(Dates in parentheses indicate year of initial appointment)

RUSSELL, FREMONT LINCOLN; B.S., Maine, 1885; V.S., New York College of Veterinary Surgeons, 1886; Professor Emeritus of Bacteriology and Veterinary Science; 38½ Oak Street.

STEVENS, JAMES STACY; B.S., Rochester, 1885; M.S., 1888; M.S., Syracuse, 1889; LL.D., Rochester, 1907; Litt.D., Maine, 1922; Dean Emeritus of the College of Arts and Sciences; 175 Main Street.

COLVIN, CAROLINE; A.B., Indiana, 1893; Ph.D., University of Pennsylvania, 1901; LL.D., Maine, 1927; Professor Emeritus of History and Government; South Hall.

SIMMONS, GEORGE EDWARD; B.S., Ohio Northern, 1902; M.S., 1905; B.Sc., Ohio State, 1909; D.Sc., Ohio Northern, 1922; Professor Emeritus of Agronomy; 7 Gilbert Street.

ABBOTT, HERBERT BURR (1920); Technician, Department of Mechanical Engineering, College of Technology; Crosby Mechanical Laboratory; 159 Stillwater Avenue, Old Town.

ALCOTT, ROBERT KERR (1935); Lieutenant Colonel, Infantry (D.O.L.), U. S. Army; LL.B., Minnesota, 1904; Professor of Military Science and Tactics; Armory; 6 North Main Street.

ALDOUS, CLARENCE MORONI (1936); B.S., Utah State, 1917; M.S., University of Minnesota, 1923; Associate Professor of Game Management, College of Agriculture; 8 Coburn; 67 Mill Street.

ALLEN, EDWARD JONES (1936); A.B., Colorado College, 1921; A.M., Columbia, 1923; Ph.D., 1936; Dean of the College of Arts and Sciences and Professor of Economics, member of Graduate Faculty; 100 Stevens; 378 College Road.

ANDREWS, ALFRED CARLETON (1931); A.B., Bowdoin, 1926; A.M., University of Pennsylvania, 1929; Ph.D., 1931; Assistant Professor of Classics, College of Arts and Sciences, member of Graduate Faculty, Acting Editor of the Catalog; 140 Stevens; 60 Oak Street.

ARNOLD, FRANCES ELIZABETH (1919); B.A., Maine, 1910; M.A., 1923; Assistant Professor of Romance Languages, College of Arts and Sciences; 5 Stevens, North; 11 Pond Street.

Ashby, Stanley Royal (1930); B.A., Texas, 1904; B.A., Oxford, 1907; M.A., 1923; A.M., Harvard, 1925; Ph.D., 1927; Associate Professor of English, College of Arts and Sciences; 235 Stevens; 67 Main Street.

Ashman, Robert Irving (1930); A.B., Cornell University, 1913; M.F., Yale, 1929; Associate Professor of Forestry, College of Agriculture; 24 Winslow; 69 Mill Street.

Ashworth, John H (1919); A.B., Emory and Henry, 1906; Ph.D., Johns Hopkins, 1914; Professor and Head of Department of Economics and Sociology, College of Arts and Sciences, member of Graduate Faculty; 46 Stevens, South; 88 North Main Street.

Bailey, Mark (1920); A.B., Yale, 1915; A.M., University of Michigan, 1917; Professor and Head of Department of Public Speaking, College of Arts and Sciences; 240 Stevens; University Place.

Baker, Gregory (1935); B.S., Maine, 1924; Instructor in Forestry, College of Agriculture; 24 Winslow; 36 Myrtle Street.

Barrows, William Edward (1912); B.S., Maine, 1902; E.E., 1908; Professor and Head of Department of Electrical Engineering, College of Technology, member of Graduate Faculty; 2 Lord; 40 Myrtle Street.

Bennett, Clarence Edwin (1934); Ph.B., Brown, 1923; Sc.M., 1924; Ph.D., 1930; Assistant Professor of Physics, College of Arts and Sciences; 208 Aubert; 22 Myrtle Street.

Bliss, Warren Herbert (1931); B.S., Michigan State College, 1928; M.S., 1931; Instructor in Electrical Engineering, College of Technology; 4 Lord; 15 Pleasant Street.

Bogan, Edgar Junior (1929); A.B., Miami, 1926; A.M., Princeton, 1929; Instructor in Chemistry, College of Technology; 321 Aubert; 4 Myrtle Street.

Bowden, Ralph Sheldon (1925); Technician in Department of Electrical Engineering, College of Technology; 28 Lord; 144 Park Street.

Bowie, Harold Everett (1936); B.A., Maine, 1928; M.A., 1932; Instructor in Mathematics, College of Arts and Sciences; 120 Stevens; 25 Broadway.

Bradt, Wilber Elmore (1936); A.B., Indiana University, 1922; M.A., 1924; Ph.D., 1926; Professor of Chemistry and Head of Department of Chemistry and Chemical Engineering, College of Technology, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 329 Aubert; 6 North Main Street.

Brann, Bertrand French (1917); B.S., Maine, 1909; M.S., 1911; S.M., Massachusetts Institute of Technology, 1912; Associate Professor of Chemistry, College of Technology; 221 Aubert; 370 College Road.

BRAUTLECHT, CHARLES ANDREW (1919); Ph.B., Yale, 1906; Ph.D., 1912; Professor of Chemistry and Chemical Engineering, College of Technology, member of Graduate Faculty; 333 Aubert; 63 Bennoch Street.

BRAY, PAUL DECOSTA (1923); B.S., Maine, 1914; Ch.E., 1918; Professor and Head of Department of Pulp and Paper Technology, College of Technology, member of Graduate Faculty; 135 Aubert; 47 Forest Avenue.

BRICE, FRED MANSFIELD (1921); Professor of Physical Education; Memorial Gymnasium; 13 Pine Street.

*BRICKER, HERSCHEL LEONARD (1928); A.B., Coe, 1928; Assistant Professor of Public Speaking, College of Arts and Sciences.

BRUSH, EDWARD NEWCOMB (1928); A.B., Vermont, 1925; A.M., Harvard, 1926; Ph.D., 1932; Associate Professor of Psychology, College of Arts and Sciences; 43 Stevens, North; 391 College Road.

BRYAN, NOAH ROSENBERGER (1922); B.A., Pennsylvania State, 1913; A.M., University of Pennsylvania, 1918; Ph.D., Columbia, 1921; Associate Professor of Mathematics, College of Arts and Sciences; 135 Stevens; 4 University Place.

BUZZELL, MARION STEPHANIE (1919); B.A., Maine, 1914; M.A., 1915; Assistant Professor of Romance Languages, College of Arts and Sciences; 5 Stevens, North; 222 North Brunswick Street, Old Town.

CAULFIELD, JOHN GEORGE LESLIE (1926); B.S., Maine, 1924; M.S., 1926; Assistant Professor of Pulp and Paper Technology, College of Technology; 135 Aubert; 208 French Street, Bangor.

CHADBOURNE, AVA HARRIET (1915); B.A., Maine, 1915; M.A., 1918; A.M., Columbia, 1919; Ph.D., 1928; Professor of Education, School of Education, member of Graduate Faculty; 14 Stevens, South; Stillwater.

CHADBOURNE, WALTER WHITMORE (1922); B.A., Maine, 1920; M.B.A., Harvard, 1922; Ph.D., 1935; Associate Professor of Economics and Sociology, College of Arts and Sciences; 30 Stevens, South; 59 College Road.

CHAPMAN, CHAUNCEY WALLACE LORD (1919); B.S., Maine, 1914; M.S., 1921; Assistant Professor of Forestry, College of Agriculture; 24 Winslow; 13 Park Street.

CHASE, GEORGE DAVIS (1905); A.B., Harvard, 1889; A.M., 1895; Ph.D., 1897; Professor and Head of Department of Classics, College of Arts and Sciences, Dean of Graduate Study, and coöperating member of the faculty of the School of Education; 140 Stevens; 143 Main Street.

CHASE, HUGH DONALD (1932); S.B., Massachusetts Institute of Technology, 1931; S.M., 1932; Assistant Professor of Civil Engineering, College of Technology; 2 Fernald; 54 Pine Street.

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*On leave of absence, 1936-37

CHUCKA, JOSEPH ANTHONY (1934); B.S., Wisconsin, 1927; M.S., 1928; Ph.D., 1930; Professor and Head of Department of Agronomy and Agricultural Engineering, College of Agriculture, member of Graduate Faculty; 26 Winslow; 65 Forest Avenue.

CLAPP, ROGER (1929); B.S., Cornell University, 1928; M.S., Maine, 1932; Assistant Professor of Horticulture, College of Agriculture; Horticulture Greenhouse; 505 College Road.

CLOKE, PAUL (1926); E.E., Lehigh, 1905; M.S., 1913; Eng.D., Maine, 1934; Dean of the College of Technology and Director of the Technology Experiment Station, member of Graduate Faculty; 12 Wingate; 49 Forest Avenue.

COGGESHALL, REGINALD (1936); A.B., Harvard, 1916; A.M., 1932; Assistant Professor of English, College of Arts and Sciences, and Director of University Publicity; 340 Stevens; 40 Forest Avenue.

COOPER, GERALD PAUL (1936); B.S., Michigan State Normal, 1931; M.A., University of Michigan, 1932; Instructor in Zoology, College of Arts and Sciences; 25 Coburn; 104 North Main Street.

CORBETT, LAMERT SEYMOUR (1913); B.S., Massachusetts State College, 1909; B.S.A., Boston University, 1909; M.S., Kentucky, 1913; Professor and Head of Department of Animal Industry, College of Agriculture, Dean of Men, member of Graduate Faculty; 27 Rogers; Campus.

CRABTREE, KENNETH GERARD (1926); S.B., Massachusetts Institute of Technology, 1923; Instructor in Electrical Engineering, College of Technology; 4 Lord; 46 Main Street.

CRAWFORD, JOHN RAYMOND (1930); B.A., Culver-Stockton, 1924; M.A., State University of Iowa, 1929; Ph.D., 1931; Assistant Professor of Education and Director of Bureau of Educational Research and Service, School of Education, member of Graduate Faculty; 18 Stevens, South; 23 Pond Street.

CREAMER, WALTER JOSEPH (1919); B.S., Maine, 1918; E.E., 1921; B.A., 1923; Associate Professor of Electrical Communication, College of Technology, Director of Freshman Week, member of Graduate Faculty; 28A Lord; 331 Center Street, Bangor.

CROFUTT, CHARLES BURTON (1926); B.A., Cornell College, 1919; M.S., State University of Iowa, 1920; Ph.D., 1923; Associate Professor of Physics, College of Arts and Sciences, member of Graduate Faculty; 300 Aubert; 30 Mill Street.

CROSBY, RUTH (1929); A.B., Mount Holyoke, 1919; A.M., Radcliffe, 1920; Ph.D., 1929; Assistant Professor of English, College of Arts and Sciences; 230 Stevens; 56 Main Street.

CURTIS, THEODORE SMALL (1930); B.S., Maine, 1923; Faculty Manager of Athletics; Memorial Gymnasium; Gilbert Street.

DAVEE, EVERETT WILLARD (1903); Instructor in Mechanical Engineering, College of Technology; Mechanical Shops; 46 College Road.

DEERING, ARTHUR LOWELL (1912); B.S., Maine, 1912; Sc.D., 1934; Dean of the College of Agriculture, member of Graduate Faculty, Director of Extension Service; 16 Winslow; 160 College Road.

DEMERITT, DWIGHT BURGESS (1934); B.S., Maine, 1922; M.F., Yale, 1923; Professor and Head of Department of Forestry, College of Agriculture, member of Graduate Faculty; 24 Winslow; 15 University Place.

DICKINSON, CHARLES ALEXIUS (1926); A.M., Clark, 1922; Ph.D., 1925; Professor and Head of Department of Psychology, College of Arts and Sciences, Acting Director of the Summer Session, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 31 Stevens, North; Bennoch Street.

DIRKS, CHARLES ORVILLE (1927); B.S., Kansas State College, 1924; M.S., Iowa State College, 1925; Ph.D., Cornell University, 1935; Associate Professor of Entomology, College of Agriculture; 32 Coburn; 9 Peters Street.

DORSEY, LLEWELLYN MORSE (1917); B.S., Maine, 1916; M.S., 1923; Professor of Dairy Husbandry, College of Agriculture, member of Graduate Faculty; 28 Rogers; 67 Bennoch Street.

*DOW, EDWARD FRENCH (1929); B.S., Bowdoin, 1925; A.M., Harvard, 1926; Ph.D., 1932; Associate Professor and Head of Department of History and Government, College of Arts and Sciences, member of Graduate Faculty.

*DOW, GEORGE FARRINGTON (1934); B.S., Maine, 1927; M.S., 1929; Associate Professor of Agricultural Economics and Farm Management, College of Agriculture.

DRUMMOND, ROBERT RUTHERFORD (1909); B.S., Maine, 1905; Ph.D., University of Pennsylvania, 1909; Professor and Head of Department of German, College of Arts and Sciences, member of Graduate Faculty; 325 Stevens; 61 Bennoch Street.

*DUNHAM, EARL MAYNARD (1926); B.A., Maine, 1924; M.A., 1928; Assistant Professor of Engineering Drafting, College of Technology; 41 Wingate; 490 State Street, Bangor.

ELLIS, MILTON (1919); B.A., Maine, 1907; M.A., 1908; A.M., Harvard, 1909; Ph.D., 1913; Professor and Head of Department of English, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 200 Stevens; 29 Park Street.

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*On leave of absence, 1936-37.

EVANS, WESTON SUMNER (1920); B.S., Maine, 1918; M.S., 1923; Professor and Head of Department of Civil Engineering, College of Technology, member of Graduate Faculty; 21 Wingate; 8 Kell Street.

FISHER, KENNETH CLARKE (1936); B.A., Acadia University, 1932; M.A., University of Toronto, 1934; Ph.D., 1936; Instructor in Zoology, College of Arts and Sciences; 23 Coburn; 178 Main Street.

FITCH, ALBERT LEWIS (1919); A.B., Albion, 1911; A.M., 1912; Ph.D., University of Michigan, 1916; Professor and Head of Department of Physics, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 200 Aubert; 32 College Road.

FLEWELLING, HOWARD LLOYD (1932); A.B., Dartmouth, 1921; M.A., Maine, 1929; Ph.D., University of Michigan, 1932; Assistant Professor of English, College of Arts and Sciences; 230 Stevens; 104 Main Street.

FRIEDLY, DONALD EUGENE (1936); A.B., Oberlin College, 1929; M.A., Yale, 1933; Instructor in Public Speaking, College of Arts and Sciences; 330 Stevens; 104 Main Street.

FUNDENBURG, GEORGE BAER (1931); A.B., Princeton, 1916; A.M., 1917; Ph.D., Columbia, 1919; Associate Professor and Acting Head of Department of Romance Languages, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 9 Stevens, North; 66 College Road.

GANNETT, JAMES ADRIAN (1908); B.S., Maine, 1908; M.A., 1928; Registrar; Alumni; 166 Main Street.

GARDNER, LEIGH PHILBROOK (1920); B.S., Maine, 1918; M.S., 1923; Assistant Professor of Poultry Husbandry, College of Agriculture; Poultry Building; 45 Oak Street.

GILLILAND, WILLIAM LESTER (1927); B.S., University of Washington, 1920; M.S., 1921; Ph.D., Massachusetts Institute of Technology, 1925; Assistant Professor of Chemistry, College of Technology; 423 Aubert; 26 Myrtle Street.

GOODSPEED, ALLEN WRIGHT (1934); B.S., Maine, 1928; M.F., Yale, 1929; Associate Professor of Forestry, College of Agriculture; 24 Winslow; 188 Main Street.

GOULD, GLADYS MARIE (1928); B.S., Maine, 1922; Part-time Instructor in Home Economics in charge of Student Teaching, College of Agriculture; Brewer High School; 127 Parker Street, Brewer.

‡GREENE, PEARL STUART (1923); B.A., Northwestern, 1909; B.S., Lewis Institute, 1914; A.M., Columbia, 1923; Professor and Head of Department of Home Economics, College of Agriculture, member of Graduate Faculty; 23 Merrill; 6 University Place.

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‡On leave of absence, spring semester, 1936-37.

HAILE, ELEANOR (1935); B.S., Tennessee, 1929; M.S., Iowa State, 1935; Assistant Professor of Home Economics, College of Agriculture; 11a Merrill; 162 College Road.

HALL, HOWE WIGGIN (1923); B.S., Maine, 1914; M.S., 1925; Assistant Professor of Animal Husbandry, College of Agriculture; 25 Rogers; 24 Crosby Street.

*HART, JAMES NORRIS (1887); B.C.E., Maine, 1885; C.E., 1890; S.M., Chicago, 1897; Sc.D., Maine, 1908; Ph.D., 1922; Dean of the University and Professor of Mathematics and Astronomy, College of Arts and Sciences, member of Graduate Faculty.

HAUCK, ARTHUR ANDREW (1934); A.B., Reed, 1915; Ph.D., Columbia, 1932; LL.D., Lafayette, 1936; President of the University; Alumni; Campus.

HAW, JOSEPH CUMMING (1936); Lieutenant Colonel, Coast Artillery Corps (D.O.L.), U. S. Army; Professor of Military Science and Tactics; Armory; 380 College Road.

HIGHLANDS, MATTHEW EDWARD (1935); B.A., Maine, 1928; S.M., Massachusetts Institute of Technology, 1934; Assistant Professor of Bacteriology, College of Agriculture; 13 Winslow; 54 Main Street.

HILL, ARTHUR ST. JOHN (1918); E.E., Polytechnic Institute of Brooklyn, 1911; M.S.E., University of Michigan, 1932; Professor of Electrical Engineering, College of Technology, member of Graduate Faculty; 5 Lord; Kell Street.

HILL, HERBERT STAPLES (1918); A.B., Bowdoin, 1905; Professor and Head of Department of Agricultural Education, College of Agriculture; 35 Winslow; University Place.

HITCHNER, ELMER REEVE (1922); B.S., Pennsylvania State, 1915; M.S., 1916; Ph.D., Wisconsin, 1931; Professor of Bacteriology and Head of Department of Bacteriology and Biochemistry, College of Agriculture, member of Graduate Faculty; 13 Winslow; 51 Bennoch Street.

**HOTTON, FERN (1937); B.S., Michigan State, 1924; A.M., Columbia, 1928; Assistant Professor of Home Economics, College of Agriculture; 11 Merrill; 59 College Road.

HUDDILSTON, JOHN HOMER (1899); B.A., Baldwin-Wallace, 1890; M.A., 1892; A.B., Harvard, 1893; Ph.D., Munich, 1898; Professor of Ancient Civilization and Lecturer on Art History, College of Arts and Sciences; Library; 193 Main Street.

HUSKEA, VICTOR GEOFFREY (1935); Major, Infantry (D.O.L.), U. S. Army; Professor of Military Science and Tactics; Armory.

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*On leave of absence, 1936-37.

**Appointment for spring semester, 1936-37 only.

HYLAND, FAY (1926) ; B.S., Michigan State College, 1925; M.S., Maine, 1929; Assistant Professor of Botany, College of Agriculture; 31 Coburn; 180 Main Street.

IBBOTSON, LOUIS TAPPE (1928) ; A.B., Hamilton, 1922; B.L.S., University of the State of New York, 1925; Librarian; Library; University Place.

JACKMAN, ERNEST DELMORE (1930) ; A.B., Colby College, 1912; A.M., Columbia, 1924; Associate Professor of Education and Director of Teacher Training, School of Education; 10 Stevens, South; College Road.

JENKINS, CHESTER ALBERT (1928) ; B.S., Dartmouth, 1911; M.S., Maine, 1931; Professor of Physical Education; Memorial Gymnasium; University Place.

*JENNESS, LYLE CLAYTON (1923) ; B.S., New Hampshire, 1922; M.S., Maine, 1925; Associate Professor of Chemistry, College of Technology.

JENSEN, ARTHUR EUGENE (1933) ; Ph.B., Brown, 1926; A.M., 1928; Ph.D., Edinburgh, 1933; Assistant Professor of English, College of Arts and Sciences; 220 Stevens; 27 Park Street.

JONES, MAURICE DANIEL (1913) ; B.S., Maine, 1912; M.S., 1927; Professor of Agricultural Economics and Farm Management and Manager of University Farm, College of Agriculture, member of Graduate Faculty; 36 Winslow; 164 College Road.

JORDAN, MAYNARD FRED (1925) ; B.A., Maine, 1916; M.A., 1921; Associate Professor of Mathematics and Astronomy, College of Arts and Sciences; 130 Stevens; University Place.

KENT, BENJAMIN CALVIN (1918) ; B.S., Maine, 1912; Professor and Head of Department of Engineering Drafting, College of Technology; 30 Wingate; 16 Sixth Street, Bangor.

KENYON, WILLIAM CURTIS (1926) ; Instructor in Physical Education; Memorial Gymnasium; 83 Main Street.

KIMBALL, SPOFFORD HARRIS (1936) ; B.S., Denison University, 1923; M.A., University of Pittsburgh, 1925; M.A., Harvard, 1929; Ph.D., 1932; Instructor in Mathematics, College of Arts and Sciences; 135 Stevens; 17 Oak Street.

†KIRSHEN, HIMY BENJAMIN (1929) ; B.S., Whitman, 1926; A.M., Columbia, 1929; Ph.D., Wisconsin, 1937; Assistant Professor of Economics and Sociology, College of Arts and Sciences; 42 Stevens, South; 46 North Main Street.

KLEIN, JOHN FREDERICK (1933) ; A.B., Cornell University, 1912; A.M., 1913; Ph.D., 1920; Associate Professor of German, College of Arts and Sciences; 320 Stevens; 66 College Road.

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*On leave of absence, 1936-37.

†On leave of absence, fall semester, 1936-37.

KNOWLTON, THOMAS ANSON (1936); B.A., Maine, 1933; M.A., 1934; Instructor in Economics, College of Arts and Sciences; 42 Stevens, South; 35 Park Street.

*LAMOREAU, FRED LINCOLN (1930); B.A., Maine, 1930; M.A., 1934; Instructor in Mathematics and Astronomy, College of Arts and Sciences.

LAMSON, HERBERT DAY (1935); Ph.B., Brown, 1924; M.A., 1924; A.M., Harvard, 1934; Ph.D., 1935; Assistant Professor of Economics and Sociology, College of Arts and Sciences; 42 Stevens, South; 77 Bennoch Street.

LARSEN, KARL DAVIS (1934); B.A., Maine, 1929; M.A., 1930; Ph.D., Pennsylvania State, 1934; Instructor in Physics, College of Arts and Sciences; 306 Aubert; 39 Pine Street.

LEAVITT, HAROLD WALTER (1917); B.S., Maine, 1915; C.E., 1918; M.S., 1921; Associate Professor of Civil Engineering, and Secretary of Technology Experiment Station, College of Technology; 5 Wingate; 7 Park Street.

LENGYEL, HELEN ANNA (1924); Diploma, Sargent School for Physical Education, 1915; B.A., Maine, 1927; M.A., 1936; Associate Professor of Physical Education for Women; Alumni; 11 Main Street.

LEROY, GAYLORD CLARKE (1934); A.B., Oberlin, 1930; A.M., Harvard, 1931; Instructor in English, College of Arts and Sciences; 345 Stevens; 43 Main Street.

LEVINSON, RONALD BARTLETT (1926); A.B., Harvard, 1919; Ph.D., Chicago, 1924; Professor and Head of Department of Philosophy, College of Arts and Sciences, member of Graduate Faculty; 335 Stevens; 78 North Main Street.

LIBBY, WINTHROP CHARLES (1934); B.S., Maine, 1932; M.S., 1933; Assistant Professor of Agronomy, College of Agriculture; 26 Winslow; 6 University Place.

LORING, FRED PERLEY (1934); B.S., Maine, 1916; M.S., 1936; Director of Short Courses, College of Agriculture; 11 Winslow; 79 Bennoch Street.

LOUPRET, GEORGE JOSEPH (1936); Captain, Coast Artillery Corps (D.O.L.), U. S. Army; Professor of Military Science and Tactics; Armory; University Place.

LUCAS, WARREN STANHOPE (1922); B.A., Maine, 1914; M.A., 1922; Assistant Professor of Mathematics, College of Arts and Sciences; 120 Stevens; 66 Park Street.

LUTES, OLIN SILAS (1926); A.B., Ohio University, 1915; M.A., State University of Iowa, 1923; Ph.D., 1926; Dean of the School of Education and Professor of Education, member of Graduate Faculty; 24 Stevens, South; College Road.

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*On leave of absence, 1936-37.

LYON, ALPHEUS CROSBY (1912); B.S., Maine, 1902; S.B., Massachusetts Institute of Technology, 1904; C.E., Maine, 1913; Associate Professor of Civil Engineering, College of Technology; 3 Wingate; 735 Main Street, Bangor.

MCREYNOLDS, GEORGE EDGAR (1935); A.B., Indiana, 1931; A.M., 1932; Instructor in History and Government, College of Arts and Sciences; 145 Stevens; 43 Main Street.

MARTIN, FREDERIC THURMAN (1934); Ch.E., Lehigh, 1925; Ph.D., Johns Hopkins, 1929; Instructor in Chemistry, College of Technology; 425 Aubert; 4 Myrtle Street.

MELDER, FREDERICK EUGENE (1934); B.A., University of Washington, 1926; M.A., 1931; Ph.D., Wisconsin, 1936; Assistant Professor of Economics and Sociology, College of Arts and Sciences; 44 Stevens, South; 13 Pond Street.

MERCHANT, CHARLES HENRY (1924); B.S., Cornell University, 1920; M.S., 1922; Ph.D., 1928; Professor and Head of Department of Agricultural Economics and Farm Management, College of Agriculture, member of Graduate Faculty; 36 Winslow; 39 Mill Street.

MILES, EDWIN KENNETH (1933); B.A., Lawrence, 1929; M.A., Northwestern, 1930; Ph.D., University of Pennsylvania, 1933; Assistant Professor of German, College of Arts and Sciences; 320 Stevens; 54 Pine Street.

MILNE, MARGERY (1936); A.B., Hunter College of New York City, 1933; M.A., Columbia, 1934; M.A., Radcliffe, 1936; Instructor in Zoology, College of Arts and Sciences; 30S Coburn; 33 Bennoch Street.

MORROW, RISING LAKE (1934); A.B., Wesleyan, 1923; A.M., Harvard, 1925; Ph.D., 1932; Assistant Professor of History and Government, College of Arts and Sciences, coöperating member of the faculty of the School of Education; 150 Stevens; 66 College Road.

MURRAY, JOSEPH MAGEE (1934); B.A., Maine, 1925; M.A., University of Michigan, 1927; Ph.D., 1929; Professor and Head of Department of Zoology, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 16 Coburn; 184 Main Street.

MUSGRAVE, MARGUERITE RUTH (1929); B.S., Columbia, 1925; A.M., 1926; Assistant Professor of Home Economics, College of Agriculture; 31a Merrill; 33 Main Street.

NEFF, WALTER SCOTT (1936); A.B., University of Pennsylvania, 1930; A.M., 1931; Ph.D., Cornell University, 1936; Instructor in Psychology, College of Arts and Sciences; 43 Stevens, North; 158 Main Street.

NELSON, ELVEN CLIFFORD (1933); B.A., University of Colorado, 1929; M.A., 1930; Sc.D., Johns Hopkins, 1933; Instructor in Zoology, College of Arts and Sciences; 14 Coburn; 86 North Main Street.

NIEDERFRANK, EVLON JOY (1935); B.S., Oregon State College, 1932; M.S., 1935; Assistant Professor of Agricultural Economics and Farm Management, College of Agriculture; 36 Winslow; 23 Crosby Street.

OSBORN, LAWRENCE LEWIS (1928); A.B., Indiana, 1924; A.M., 1927; Instructor in Chemistry, College of Technology; 421 Aubert; 14 Middle Street.

OTTO, CARL EVERETT (1924); B.A., Cincinnati, 1916; M.A., 1920; Ph.D., 1922; Assistant Professor of Chemistry, College of Technology; 207 Aubert; 430 College Road.

†PACKARD, CHARLES EARL (1933); A.B., Bates, 1919; S.M., Yale, 1924; Assistant Professor of Zoology, College of Arts and Sciences; 30N Coburn; 8 Mayo Street.

PEDLOW, JOHN THOMAS (1936); B.S., Pennsylvania State, 1925; M.S., Rutgers, 1926; Ph.D., Pennsylvania State, 1934; Assistant Professor of Biochemistry, College of Agriculture; 15 Winslow; 20 Myrtle Street.

PERKINS, HARRY ROY (1917); Instructor in Mechanical Engineering, College of Technology; Mechanical Shops; Spring Street, Stillwater.

*PETERSON, ROY MERLE (1918); A.B., Coe, 1906; A.M., Harvard, 1910; Ph.D., 1912; F.A.A.R.; Professor and Head of Department of Romance Languages, College of Arts and Sciences, Director of the Summer Session, Catalog Editor, member of Graduate Faculty.

PHINNEY, ARCHIE ELLSWORTH (1934); Major, Infantry (D.O.L.), U. S. Army; Professor of Military Science and Tactics; Armory; Penobscot Exchange Hotel, Bangor.

PRAGEMAN, IRVING HENRY (1927); Ph.B., Yale, 1918; M.E., 1923; Assistant Professor of Mechanical Engineering, College of Technology; 14 Lord; 48 Main Street.

RALEIGH, STEPHEN MARTIN (1934); B.S., Kansas State College, 1927; Ph.D., Minnesota, 1934; Assistant Professor of Agronomy, College of Agriculture; 26 Winslow; 150 North Park Street.

REYNOLDS, CECIL JOHN (1935); B.Sc., Mount Allison, 1926; B.A., 1927; B.A., Oxford, 1929; B.Litt., 1930; A.M., Harvard, 1932; Instructor in English, College of Arts and Sciences; 345 Stevens; 14 Middle Street.

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†Resigned December 31, 1936.
*On leave of absence, 1936-37.

REYNOLDS, FRANCES DUNTON (1936); Diploma, Dana Sieveling School of of the Dance, Boston, 1935; Diploma, Bishop-Lee School of Dramatics, 1935; Part-time Instructor in Physical Education for Women; Alumni; 56 Madison Street, Bangor.

RILEY, RICHARD MCVAY (1929); B.S., Ohio University, 1926; M.S., Cornell University, 1929; Assistant Professor of Horticulture, College of Agriculture; Horticulture Greenhouse; 43 Pine Street.

RINKAUS, JOSEPH JAMES (1935); Sergeant (D.E.M.L.), U. S. Army; Instructor in Military Science and Tactics; Armory; 6 Mill Street.

ROBERTS, EVERETT LOUIS (1921); B.S., Maine, 1920; Assistant Professor of Electrical Engineering, College of Technology; 3 Lord; 5 Summer Street.

ROGERS, MARION ELIZABETH (1927); Diploma, Sargent School for Physical Education, 1927; B.A., Maine, 1930; M.A., 1936; Instructor in Physical Education for Women; Alumni; University Place.

ROHR, CHARLES JAMES (1936); Ph.D., Johns Hopkins, 1931; Acting Assistant Professor of History and Government, College of Arts and Sciences; 145 Stevens; Bennoch Road.

ROY, JOSEPH ABEL (1936); Sergeant (D.E.M.L.), U. S. Army; Instructor in Military Science and Tactics; Armory; 98 Seventh Street, Old Town.

RUNION, HOWARD LUCIUS (1936); A.B., University of Michigan, 1931; M.A., 1932; Ph.D., 1936; Instructor in Public Speaking, College of Arts and Sciences; 330 Stevens; 15 Pond Street.

SAWYER, RALPH ALBERT (1929); B.S., Norwich, 1925; Assistant Professor of Engineering Drafting, College of Technology; 41 Wingate; 19 Oak Street.

SCAMMAN, WILLIAM FRANCIS (1926); B.A., Maine, 1908; M.A., 1930; Assistant Professor of English, College of Arts and Sciences; 245 Stevens; 84 College Road.

‡SMALL, GEORGE WILLIAM (1929); B.A., Tennessee, 1915; M.A., Johns Hopkins, 1921; Ph.D., 1922; B.Litt., Oxford, 1927; Professor of English, College of Arts and Sciences, member of Graduate Faculty; 250 Stevens; 100 Main Street.

SMITH, HARRY WOODBURY (1912); B.S., Maine, 1909; M.S., 1922; Ph.D., Rutgers, 1934; Professor of Biochemistry, College of Agriculture, member of Graduate Faculty; 15 Winslow; 382 College Avenue.

SMYTH, JOHN ROBERT (1929); B.S., Purdue, 1920; M.S., Kentucky, 1928; Professor of Poultry Husbandry, College of Agriculture; Poultry Building; 50 College Road.

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‡On leave of absence, spring semester, 1936-37.

SNIDER, ROSE (1936); B.A., Maine, 1933; M.A., 1936; Part-time Instructor in English, College of Arts and Sciences; 200 Stevens; 33 Bennoch Street.

SNYDER, MARY ELLA (1936); A.B., Gooding College, 1919; M.S., Iowa State, 1936; Instructor in Home Economics, College of Agriculture; 25 Merrill; 69 Bennoch Street.

SPARROW, THERON ALONZO (1926); B.S., Maine, 1924; Instructor in Mechanical Engineering, College of Technology; 14 Lord; 10 Main Street.

SPEICHER, BENJAMIN ROBERT (1937); A.B., Denison University, 1929; M.S., University of Pittsburgh, 1931; Ph.D., 1933; Instructor in Zoology, College of Arts and Sciences; 30N Coburn; 14 Middle Street.

SPRAGUE, ADELBERT WELLS (1916); B.S., Maine, 1905; A.M., Harvard, 1907; Professor and Head of Department of Music, College of Arts and Sciences; 15 Stevens, North; 217 Union Street, Bangor.

SPRAGUE, EMBERT HIRAM (1915); B.S., Dartmouth, 1900; Professor of Sanitary Engineering, College of Technology, member of Graduate Faculty; 21 Wingate; 180 Main Street.

STEINBAUER, GEORGE PETER (1929); B.S., Minnesota, 1925; M.S., 1927; Ph.D., 1929; Assistant Professor of Botany, College of Agriculture; 8 Coburn; 66 College Road.

STEINMETZ, FERDINAND HENRY (1927); B.S., Illinois, 1915; M.S., Minnesota, 1921; Ph.D., 1926; Professor and Head of Department of Botany and Entomology, College of Agriculture, member of Graduate Faculty; 24 Coburn; 38 North Main Street.

STEPHENSON, LEONIDAS DACOSTA, JR., (1929); B.S., North Carolina State College, 1927; Instructor in Civil Engineering, College of Technology; 11 Wingate; 195 Middle Street, Old Town.

STEWART, JOHN EMMONS (1928); B.A., Maine, 1927; M.A., 1928; Instructor in Mathematics, College of Arts and Sciences; 350 Stevens; 136 Middle Street, Old Town.

STEWART, MABEL LANCASTER (1931); B.S., Maine, 1931; Instructor in Home Economics, College of Agriculture; 15a Merrill; 136 Middle Street, Old Town.

SWANSON, GUSTAV ADOLPH (1936); B.S., Minnesota, 1930; M.A., 1932; Assistant Professor of Game Management, College of Agriculture; Coburn; 11 Middle Street.

SWEETMAN, MARION DEYOE (1927); B.S., Iowa State College, 1921; M.S., 1922; Ph.D., Minnesota, 1927; Professor of Home Economics, College of Agriculture, member of Graduate Faculty; 13 Merrill; 6 North Main Street.

SWEETSER, WILLIAM JORDAN (1915); S.B., Massachusetts Institute of Technology, 1901; Professor and Head of Department of Mechanical Engineering, College of Technology, member of Graduate Faculty; 1 Lord; 109 Main Street.

SWIFT, HAROLD CLAYTON (1920); B.S., Maine, 1918; M.S., 1923; Assistant Professor of Agronomy and Agricultural Engineering, College of Agriculture; 26 Winslow; 40 Wiley Street, Bangor.

#THOMPSON, OSCAR THOMAS (1935); B.S., Maine, 1932; M.S., 1934; Part-time Instructor in the Department of Chemistry and Chemical Engineering, College of Technology.

TOMLIN, WILBUR EVERETT (1930); A.B., Kentucky Wesleyan, 1926; A.M., Columbia, 1931; Instructor in Chemistry, College of Technology; 213 Aubert; 56 Forest Avenue.

TURNER, ALBERT MORTON (1922); A.B., Harvard, 1912; A.M., 1914; Ph.D., 1920; Professor of English and Comparative Literature, College of Arts and Sciences, member of Graduate Faculty; 235 Stevens; 154 College Road.

#TURNER, WILLIAM WILLIS (1936); B.S., Illinois, 1926; M.A., Wisconsin, 1931; Ph.D., Brown, 1936; Instructor in Economics and Sociology, College of Arts and Sciences.

TYRRELL, CECIL CLOUGH (1934); B.S., Purdue, 1931; M.S., 1932; Instructor in Mechanical Engineering, College of Technology; 14 Lord; 43 Pine Street.

VIGNERAS, LOUIS-ANDRÉ (1936); Bachelier ès lettres, Lycée Gay-Lussac, 1920; B.A., Princeton, 1921; M.A., 1922; Ph.D., Harvard, 1934; Instructor in Romance Languages, College of Arts and Sciences; 11 Stevens, North; 4 Myrtle Street.

WALLACE, STANLEY MOORE (1922); Diploma, New Haven Normal School of Gymnastics, 1917; Professor and Head of Department of Physical Education; Memorial Gymnasium; 45 Park Street.

WARING, JAMES HOWARD (1925); B.S., Pennsylvania State, 1920; M.S., 1921; Ph.D., Michigan State College, 1930; Professor and Head of Department of Horticulture, College of Agriculture, member of Graduate Faculty; Horticulture Greenhouse; 24 University Place.

WATSON, ANDREW ELWELL (1936); B.S., Maine, 1934; M.S., 1936; Acting Instructor in Agricultural Economics and Farm Management, College of Agriculture; 38 Winslow; 29 Pond Street.

WATSON, HARRY DEXTER (1920); B.S., Maine, 1920; M.S., 1929; Associate Professor of Mechanical Engineering, College of Technology; 16 Lord; University Place.

#Resigned January 31, 1937.

WELLS, BEULAH OSGOOD (1926); B.S., Maine, 1926; A.M., Columbia, 1931; Instructor in Home Economics, College of Agriculture; 35a Merrill; 2 Middle Street.

WESTON, CHARLES PARTRIDGE (1898); B.C.E., Maine, 1896; C.E., 1899; A.M., Columbia, 1902; Professor and Head of Department of Mechanics, College of Technology; 1 Fernald; College Road.

WHITMORE, ALBERT AMES (1918); B.S., Maine, 1906; M.A., 1917; Associate Professor and Acting Head of Department of History and Government, College of Arts and Sciences; 150 Stevens; 31B Mill Street.

WHITNEY, WALTER REGINALD (1928); B.S., Bowdoin, 1923; A.M., Harvard, 1935; Instructor in English, College of Arts and Sciences; 245 Stevens; 106 North Main Street.

WILLARD, HARLEY RICHARD (1904); A.B., Dartmouth, 1899; A.M., 1902; A.M., Yale, 1910; Ph.D., 1912; Professor and Head of Department of Mathematics and Astronomy, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 130 Stevens; 100 Bennoch Street.

WILSON, EDITH GRACE (1931); B.A., Southern California, 1923; M.A., 1928; Instructor in Education, School of Education, Dean of Women; 16 Stevens, South; 6 North Main Street.

WILSON, EVELYN FAYE (1933); A.B., Beloit, 1921; M.A., University of Washington, 1924; Ph.D., California, 1930; Associate Professor of History and Government, College of Arts and Sciences, member of Graduate Faculty; 175 Stevens; 56 Main Street.

WITTER, JOHN FRANKLIN (1932); B.S., Maryland, 1928; D.V.M., Michigan State College, 1932; Assistant Professor of Animal Pathology, College of Agriculture; Poultry Building; 66 College Road.

BRUSH, LILLIAN HATFIELD; B.A., Lake Forest, 1923; M.A., Illinois, 1924; Ph.D., Cornell University, 1928; Lecturer in Psychology, College of Arts and Sciences; 27A Stevens, North; 391 College Road.

TURNER, PERCIE HOPKINS; A.B., Smith, 1917; A.M., 1920; A.M., Radcliffe, 1923; Ph.D., 1924; Lecturer in English, College of Arts and Sciences; 154 College Road.

BROWN, ALICE LOWE; A.B., Colby, 1899; Critic Teacher, School of Education; Old Town High School; 26 North Fourth Street, Old Town.

CROXFORD, HORACE ALCANDER; B.A., Maine, 1930; Critic Teacher, School of Education; Old Town High School; 183 Stillwater Avenue, Old Town.

GRANT, GRACE STETSON; A.B., Colby, 1907; A.M., Middlebury College, 1935; Critic Teacher, School of Education; Orono High School; 80 Pine Street.

HATHORNE, HELEN LOUISE; B.A., Maine, 1922; Critic Teacher, School of Education; Brewer High School; RFD 7, Bangor.

MUTTY, MARIE JOSEPHINE; B.A., Maine, 1933; Critic Teacher, School of Education; Old Town High School; 60 Fourth Street, Old Town.

ROBINSON, VEYSEY HIRAM; B.Ped., Maine, 1917; Instructor and Critic Teacher, School of Education; Old Town High School; 183 Middle Street, Old Town.

SMITH, CHARLES LESTER; A.B., Harvard, 1907; Instructor and Critic Teacher, School of Education; Orono High School; 39 Mill Street.

CRAM, ERNEST MAYLAND; B.S., Maine, 1935; Graduate Assistant in the Department of Chemistry and Chemical Engineering, College of Technology; 421 Aubert; 33 Peters Street.

DICK, LEO ALEXANDER; B.S., University of Wisconsin, 1935; Graduate Fellow in Bacteriology, College of Agriculture; 13 Winslow; 51 North Main Street.

HASKELL, MARGARET AUGUSTA; B.S., Hamline University, 1935; Graduate Assistant in the Department of English, College of Arts and Sciences; 225 Stevens; 33 Peters Street.

JACOBSON, KARL ANDREW; B.S., University of Minnesota, 1936; Graduate Assistant in Wildlife Conservation, College of Agriculture; Coburn; 45 Mill Street.

JOHNSON, LEWIS OLOF; B.S., Maine, 1934; Graduate Assistant in the Department of Engineering Drafting, College of Technology; 41 Wingate; 131 Birch Street, Bangor.

LENDO, ALEXANDER CHESTER; B.S., Worcester Polytechnic Institute, 1932; Assistant in the Department of Civil Engineering, College of Technology; 11 Wingate; Sigma Alpha Epsilon.

LINDEN, CARL ARTHUR; B.S., Tufts, 1936; Graduate Assistant in the Department of Engineering Drafting, College of Technology; 41 Wingate; 134 College Road.

MARSH, JOEL WHITE; B.S., Maine, 1935; Graduate Assistant in Wildlife Conservation, College of Agriculture; Coburn; Phi Kappa Sigma.

MORRIS, THOMAS WHALEY; B.S., Michigan State College, 1936; Graduate Fellow in Physics, College of Arts and Sciences; 302 Aubert; 47 Mill Street.

O'Brien, Donal Francis; B.S., Rhode Island State, 1936; Graduate Assistant in Wildlife Conservation, College of Agriculture; Coburn; 45 Mill Street.

Prince, Alton Ernest; B.S., Maine, 1936; Graduate Fellow in Botany and Entomology, College of Agriculture; 26 Coburn; 12½ Pleasant Street.

Smith, Harold Winston; B.S., University of Illinois, 1936; Graduate Fellow in Dairy Husbandry, College of Agriculture; 28 Rogers; 25 Myrtle Street.

Spalding, Edward Lewis; B.S., Maine, 1935; Graduate Assistant in Wildlife Conservation, College of Agriculture; Coburn; Kappa Sigma.

Maine Agricultural Experiment Station

COUNCIL

Arthur Andrew Hauck, Ph.D., LL.D.	*President*
Fred Griffee, Ph.D.	*Secretary*
Thomas Edward Houghton, Fort Fairfield	*Committee of Trustees*
John Thomas Gyger, M.S., Portland	*Committee of Trustees*
*Frank Porter Washburn, Augusta	*Committee of Trustees*
Arthur Lowell Deering, Sc.D.	*Dean of the College of Agriculture and Director, Extension Service*
Frank Augustus Potter, Bangor	*State Grange*
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Charles Conant Clements, Winterport	*Maine Poultry Improvement Association*

Edith Marion Patch, Ph.D.	*Members of the Station Staff*
Elmer Robert Tobey, Ch.E.	*Members of the Station Staff*
Donald Folsom, Ph.D.	*Members of the Station Staff*
Charles Henry Merchant, Ph.D.	*Members of the Station Staff*
Pearl Stuart Greene, A.M.	*Members of the Station Staff*
William Franklin Dove, Ph.D.	*Members of the Station Staff*
Charles Harry White, Ph.C.	*Members of the Station Staff*
Reiner Bonde, M.S.	*Members of the Station Staff*
George Farrington Dow, M.S.	*Members of the Station Staff*
Marion Deyoe Sweetman, Ph.D.	*Members of the Station Staff*
Joseph Anthony Chucka, Ph.D.	*Members of the Station Staff*
Frederick Barker Chandler, B.S.	*Members of the Station Staff*
Russell Manley Bailey, B.S.	*Members of the Station Staff*
Frank Heidtman Lathrop, Ph.D.	*Members of the Station Staff*
Mary Morris Clayton, Ph.D.	*Members of the Station Staff*
Bernie Elliott Plummer, Jr., M.S.	*Members of the Station Staff*
Delmar Simon Fink, Ph.D.	*Members of the Station Staff*

*Also a member of the Council ex officio as Commissioner of Agriculture.

Faculty of Investigation

AVERILL, ALICE WOODS, Laboratory Assistant in Entomology.

BAILEY, DEAN MANTER, Graduate Assistant in Plant Breeding and Nutrition.
B.S., Maine, 1936.

BAILEY, RUSSELL MANLEY, Associate Biologist, Plant Breeding and Nutrition.
B.S., Maine, 1928.

BLACKMORE, MAGRETTA, Assistant, Department of Agricultural Economics.

BONDE, REINER, Associate Plant Pathologist.
B.S., Minnesota, 1922; M.S., Maine, 1926.

BOWERS, RUTH WILMA, Assistant in Seed Analysis and Laboratory Assistant in Plant Pathology.

BRAUTLECHT, CHARLES ANDREW, Collaborating Chemist.
Ph.B., Yale, 1906; Ph.D., 1912.

BURGESS, IVA MERCHANT, Assistant in Biology.
B.S., Maine, 1923; M.S., 1925.

CHADWICK, FRANK, JR., Assistant, Animal Breeding.
B.S., Maine, 1936.

CHANDLER, FREDERICK BARKER, Assistant Biologist in Charge of Blueberry Investigations.
B.S., Maine, 1928.

CHUCKA, JOSEPH ANTHONY, Associate Biologist, Plant Breeding and Nutrition.
B.S., Wisconsin, 1927; M.S., 1928; Ph.D., 1930.

CLAYTON, MARY MORRIS, Nutritionist.
B.S., Columbia, 1918; M.S., Rochester, 1926; Ph.D., 1929.

COVELL, MILDRED REBECCA, Assistant in Biology.

DOVE, WILLIAM FRANKLIN, Biologist, Animal Breeding and Nutrition.
B.S., Iowa State College, 1922; M.S., Wisconsin, 1923; Ph.D., 1927.

†DOW, GEORGE FARRINGTON, Associate Agricultural Economist.
B.S., Maine, 1927; M.S., 1929.

FINK, DELMAR SIMON, Assistant Biologist, Plant Breeding and Nutrition.
B.S., Wisconsin, 1930; M.S., 1931; Ph.D., 1934.

FOLSOM, DONALD, Plant Pathologist.
A.B., Nebraska, 1912; M.A., Minnesota, 1914; Ph.D., 1917.

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†On leave of absence, 1936-37.

*Greene, Pearl Stuart, Home Economist.
B.A., Northwestern, 1909; B.S., Lewis Institute, 1914; A.M., Columbia, 1923.

Griffee, Fred, Director.
B.S., Kansas State College, 1919; M.S., Minnesota, 1920; Ph.D., 1924.

Hawkins, Arthur, Assistant Biologist, Plant Breeding and Nutrition.
B.S., Rutgers, 1934; M.S., 1936.

Hawkins, John Henry, Assistant Entomologist.
B.S., Illinois, 1926; M.S., Maine, 1927; Ph.D., Cornell University, 1935.

Hilborn, Merle Tyson, Assistant Plant Pathologist.
B.S., Maine, 1932; M.S., 1934.

Inman, Charles Clyde, Administrative Assistant.

Kenney, Emmeline Wilson, Laboratory Assistant in Biology.

Lathrop, Frank Heidtman, Entomologist.
B.S., Clemson, 1913; M.S., Ohio State, 1915; Ph.D., 1923.

*Lovejoy, Delmar Boynton, Assistant Biologist, Plant Breeding and Nutrition.
B.S., Maine, 1928; M.S., Wisconsin, 1935.

Mason, Irvin Carroll, Assistant in Biology, Blueberry Investigations.
B.S., Maine, 1930; M.S., 1932.

Merchant, Charles Henry, Agricultural Economist.
B.S., Cornell University, 1920; M.S., 1922; Ph.D., 1928.

Monroe, Merna Mertha, Assistant in Home Economics Research.
B.S., Iowa State College, 1929; M.S., Kansas State College, 1932.

Moore, Millard George, Assistant Chemist.
B.S., Maine, 1919; M.S., 1930.

Murphy, Elizabeth Florence, Assistant in Animal Breeding and Nutrition.
B.A., Maine, 1930; M.A., 1934.

Patch, Edith Marion, Entomologist.
B.S., Minnesota, 1901; M.S., Maine, 1910; Ph.D., Cornell University, 1911.

Perkins, Glenn Harold, Assistant Chemist.
B.S., Maine, 1930; M.S., 1931.

Plummer, Bernie Elliott, Jr., Associate Chemist.
B.S., Maine, 1924; M.S., 1925.

Pooler, Elaine Mary, Chief Assistant in Agricultural Economics.

Schrumpf, William Ernest, Assistant Agricultural Economist.
B.S., Maine, 1928; M.S., 1930.

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*On leave of absence, spring semester, 1936-37.

SIMPSON, GEDDES WILSON, Assistant Entomologist.
A.B., Bucknell, 1929; A.M., Cornell University, 1931; Ph.D., 1935.
STEINBAUER, GEORGE PETER, Seed Analyst, Department of Inspections.
B.S., Minnesota, 1925; M.S., 1927; Ph.D., 1929.
SWEETMAN, MARION DEYOE, Collaborating Home Economist.
B.S., Iowa State College, 1921; M.S., 1922; Ph.D., Minnesota, 1927.
TOBEY, ELMER ROBERT, Chemist.
B.S., Maine, 1911; M.S., 1917; Ch.E., 1920.
WATSON, ANDREW ELWELL, Acting Assistant Agricultural Economist.
B.S., Maine, 1934; M.S., 1936.
WHITE, CHARLES HENRY, Associate Chemist and Photographer.
Ph.C., Maine, 1897.

MAINE TECHNOLOGY EXPERIMENT STATION

Staff and Assistants

PAUL CLOKE, E.E., Eng.D., *Director*
HAROLD WALTER LEAVITT, C.E., M.S., *Secretary*
WILLIAM EDWARD BARROWS, B.S., E.E., *Professor of Electrical Engineering*
WILBER ELMORE BRADT, Ph.D., *Professor of Chemistry*
CHARLES ANDREW BRAUTLECHT, Ph.D., *Professor of Chemistry and Chemical Engineering*
PAUL DECOSTA BRAY, B.S., Ch.E., *Professor of Pulp and Paper Technology*
WESTON SUMNER EVANS, M.S., *Professor of Civil Engineering*
WILLIAM JORDAN SWEETSER, S.B., *Professor of Mechanical Engineering*
ARTHUR ST. JOHN HILL, E.E., M.S.E., *Professor of Electrical Engineering*
EMBERT HIRAM SPRAGUE, B.S., *Professor of Sanitary Engineering*
WALTER JOSEPH CREAMER, B.S., E.E., B.A., *Associate Professor of Electrical Communication*
LYLE CLAYTON JENNESS, M.S., *Associate Professor of Chemistry*
WILLIAM LESTER GILLILAND, Ph.D., *Assistant Professor of Chemistry*
CARL EVERETT OTTO, Ph.D., *Assistant Professor of Chemistry*
HUGH DONALD CHASE, S.M., *Assistant Professor of Civil Engineering*
WARREN HERBERT BLISS, M.S., *Instructor in Electrical Engineering*
KARL D. LARSEN, Ph.D., *Instructor in Physics*
EDNA R. BISHOP OTTO, A.M., *Research Assistant*
HORACE ASA PRATT, M.S., *Assistant Engineer*
WILLIAM FRANCIS SCAMMAN, M.A., *Editor of Bulletins*
JOHN H. SWEATT, B.A., *Bituminous Chemist for the State Highway Commission*
CLAYTON LEONARD SAWYER, *Highway Laboratory Assistant*
ROBERT BRUCE BRADFORD, B.S., *Highway Laboratory Assistant*
EARL FREEMAN BENNETT, S.M., *Research Assistant*

Faculty of Extension Service

(COLLEGE OF AGRICULTURE)

ARTHUR LOWELL DEERING, Director.
B.S., Maine, 1912; Sc.D., 1934
GEORGE EDGAR LORD, Assistant Director.
B.S., Maine, 1924

STATE AGENTS

RAYMON NEALE ATHERTON, Extension Economist, Marketing.
B.S., Maine, 1918
EDNA MANSFIELD COBB, Home Management Specialist.
B.S., Cornell University, 1928
DONALD PHILIP CORBETT, Assistant Dairy Specialist.
B.S., Maine, 1934
LEONE MAE DAKIN, Foods Specialist.
B.S., Maine, 1926
CLARENCE ALBERT DAY, Extension Editor.
M.S., Maine, 1929
RICHARD CARLTON DOLLOFF, County Agent Leader.
B.S., Maine, 1927
ALBERT KINSMAN GARDNER, Crops Specialist.
B.S., Maine, 1910
MILON GEORGE HUBER, Extension Agricultural Engineer.
B.S., Wisconsin, 1929; M.S., 1932
KENNETH COUSINS LOVEJOY, State Club Leader.
B.S., Maine, 1928
SMITH CHARLES MCINTIRE, Extension Economist, Farm Management.
B.S., Maine, 1932.
STACY ROSS MILLER, Extension Economist, Farm Management.
B.S., Maine, 1932.
BRUCE BEAR MINER, Assistant Extension Editor.
B.S., Cornell University, 1935
WENDALL EARL MOSHER, Executive Secretary to Director of Extension.
B.S., Maine, 1929
ESTELLE NASON, State Home Demonstration Agent Leader.
B.S., Maine, 1922
ALBERT DEANE NUTTING, Forestry Specialist.
B.S., Maine, 1927

Evelyn Marie Plummer, Assistant State Club Leader.
B.S., Maine, 1933.
Donald Winslow Reed, Extension Economist, Farm Management.
B.S., Maine, 1922
Harrison Lambert Richardson, Poultry Specialist.
B.S., Maine, 1924
Helen Constance Spaulding, Clothing Specialist.
B.S., Simmons, 1913
Richard Foster Talbot, Dairy Specialist.
B.S., Maine, 1907
Oscar Lewis Wyman, Assistant Crops Specialist.
B.S., Maine, 1926

County Agents

Verne Curtis Beverly, Aroostook County.
B.S., Maine, 1920
Richard Francis Blanchard, Oxford County.
B.S., Maine, 1931
Ralph Ashton Corbett, Franklin County.
B.S., Maine, 1930
Charles Leslie Eastman, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1922
Frank Wilbur Hagan, Somerset County.
B.S., Maine, 1933
Ralph William Hobson, Washington County.
B.S., Maine, 1925
John Winston Hoyt, District County Agent.
B.S., Maine, 1935
Bryce Meredith Jordan, Assistant County Agent, Aroostook County.
B.S., Maine, 1926
Raymond Harwood Lovejoy, York County.
B.S., Maine, 1921
Wesley Spaulding Norton, Kennebec County.
B.S., Maine, 1935
Philip Stewart Parsons, Waldo County.
B.S., Maine, 1934
Coleman Cedric Randall, Assistant County Agent, Penobscot County.
B.S., Maine, 1933
Lewis Pollard Roberts, Piscataquis County.
B.S., Maine, 1931

WILFRED SHERMAN ROWE, Cumberland County.
MELZOR STETSON SMITH, Penobscot County.
B.S., Maine, 1931
GARDNER BERRY TIBBETTS, Hancock County.
B.S., Maine, 1922
GEORGE FREDERIC WARREN, JR., District County Agent, Cumberland and York Counties.
B.S., Cornell University, 1935
RALPH CARLTON WENTWORTH, Knox and Lincoln Counties.
B.S., Maine, 1918

HOME DEMONSTRATION AGENTS

HORTENSE BRADBURY, Washington County.
B.S., Maine, 1935
RUTH ISABEL CALLAGHAN, Oxford County.
B.S., Maine, 1933
CHARLOTTE ELIZABETH CLEAVES, Penobscot County.
B.S., Maine, 1931
FRANCELIA PEARL DEAN, Piscataquis County.
B.S., Maine, 1934
ESTHER LOUISE DUNHAM, Knox and Lincoln Counties.
B.S., Framingham Normal, 1933
AGNES FREYER GIBBS, Cumberland County.
B.S., Framingham Normal, 1926
BARBARA HIGGINS, Waldo County.
B.S., Maine, 1930
JESSIE MILDRED LAWRENCE, Aroostook County.
B.S., Maine, 1928
EVELYN MAY LYMAN, Kennebec County.
B.S., Massachusetts State, 1931
GLADYS WINNIFRED MARBLE, York County.
B.S., Simmons, 1919
EVELYN JUNE MILLS, Hancock County.
B.S., Maine, 1933
ELIZABETH TRYON, Franklin County.
B.S., Maine, 1933
DORIS ELAINE URQUHART, Somerset County.
B.S., Rhode Island State, 1927
HORTENSE AGNES WELCH, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1927

County Club Agents

Rachel Louise Adams, Aroostook County.
B.S., Maine, 1934
Spurgeon Kearney Benjamin, Waldo County.
B.S., Maine, 1935
Earle Theodore Blodgett, York County.
B.S., Maine, 1927
Ruth Mabelle Clark, Knox and Lincoln Counties.
B.S., Maine, 1932
Clyde Elwin Higgins, Kennebec County.
B.S., Maine, 1936
Louise Marcia Hill, Cumberland County.
B.S., Maine, 1933
Martha Corinne Merrill, Penobscot County.
B.S., Farmington Normal, 1928
Wayne Schermerhorn Rich, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1934
Doris Eleanor Rosen, Oxford County.
B.S., Maine, 1934

Committees of the University Faculty

ADMINISTRATION—President, University and College Deans, Dean of Men, Registrar, Treasurer.

ASSEMBLIES—Lutes, Bliss, Loring, Morrow. Student members: John F. Bennett, Jr., '37, Lincoln Fish, '38, Leslie M. Hutchings, '37, Carol E. Stevens, '37, Mary L. Wright, '38.

ATHLETICS—Corbett, Gardner, A.K., Kent.

COE RESEARCH FUND—Dickinson, Ashby, Brautlecht, Chase, G. D., Griffee, Hill, A. S., Hitchner, Steinmetz.

EDUCATIONAL RESEARCH—Crawford, Bennett, Brautlecht, Bryan, Evans, Fitch, Fundenburg, Greene, Jensen, Jones, Leavitt, Lutes, Merchant, Sweetman, Watson, Weston.

ELIGIBILITY—Gannett, Curtis, Sprague, A. W., Wilson, E. G.

FINANCIAL AFFAIRS—Youngs, Kent, Pierce.

FRESHMAN WEEK—Creamer, Allen, Cloke, Corbett, Deering, Lutes, Wilson, E. G.

HEALTH—Hall, Corbett, Lengyel, Wallace, Wilson, E. G.

HONORS—Ellis, Brann, Buzzell, Chadbourne, A. H., Creamer, Greene, Loring.

MAINE STUDIES—Hitchner, Bradt, Chase, Ellis, Ibbotson, Lutes, Morrow.

MILITARY—Alcott, Hauck, Allen, Cloke, Deering, Lutes.

PUBLICATIONS—Gannett, Coggeshall, Crawford, Dorsey, Ibbotson, Leavitt.

PUBLICITY—Coggeshall, Bray, Crawford, Crossland, Day, Gannett.

RADIO—Crossland, Bailey, Coggeshall, Crawford, Creamer, Lathrop, Loring.

RHODES SCHOLARSHIP—Chase, G. D., Ashby, Corbett, Creamer, Hart.

SCHEDULE—Weston, Dorsey, Evans, Gannett, Peterson, and College Deans.

SECONDARY SCHOOL RELATIONS—Crane, Allen, Cloke, Deering, Gannett, Lutes.

SOCIAL AFFAIRS—Small, Corbett, Sweetser, Wilson, E. G., Youngs.

WOMEN STUDENTS—Wilson, E. G., Buzzell, Chadbourne, A. H., Crosby, Greene, Lengyel, Sweetman.

GENERAL INFORMATION

HISTORY

The University of Maine is a part of the public educational system of the State. It was established originally as the State College of Agriculture and the Mechanic Arts under the provisions of the Morrill Act, approved by President Lincoln in 1862. The next year the State of Maine accepted the conditions of the Act and in 1865 created a corporation to administer the affairs of the college.

The institution opened September 21, 1868, with a class of twelve members and a faculty of two teachers; Dr. Merritt Caldwell Fernald was appointed acting president. By 1871 four curricula had been arranged—Agriculture, Civil Engineering, Mechanical Engineering, and Elective. By gradual growth these curricula developed into the College of Agriculture, the College of Technology, and the College of Arts and Sciences. Women have been admitted as students since 1872, in compliance with special legal enactment. The original name was changed to the University of Maine in 1897. The School of Education was established in 1930.

The Maine Agricultural Experiment Station was established as a division of the University by act of the Legislature of 1887, as a result of the passage by Congress of the Hatch Act. It succeeded the Maine Fertilizer Control and Agricultural Experiment Station, which had been established in 1885.

The College of Law was opened in 1898. It was an integral part of the institution and until the year 1917 occupied quarters at the corner of Union and Second streets in Bangor. Later it was located on the campus at Orono. It was discontinued in 1920.

Graduate instruction has been given by various departments for many years. The first master's degree was conferred in 1881. Since 1923 graduate work has been a separate division in charge of a dean.

Beginning with 1902, a Summer Session has usually been held annually, consisting at first of five weeks, but now of six. It is designed primarily for teachers and educational administrators and for college students who desire to make up work or secure additional credits.

To provide permanently for the support of the University the Legislature in 1929 passed an act levying a tax of one mill on the general property valuation of the State.

The University is controlled by a Board of Trustees. The first Board was composed of sixteen members, each county delegation in the Legislature selecting one member. Various changes have occurred in the appointment of Trustees. At the present time seven members are appointed by the Governor of the State, with the advice and consent of the Council, for a term of seven years. One member is appointed for three years by the Governor upon the nomination of the Alumni Association. The Commissioner of Education is ex officio a member of the Board.

The institution has been served by the following presidents: Rev. Charles Frederick Allen, Dr. Merritt Caldwell Fernald, Dr. Abram Winegardner Harris, Dr. George Emory Fellows, Dr. Robert Judson Aley, Dr. Clarence Cook Little, Dr. Harold Sherburne Boardman, and Dr. Arthur Andrew Hauck.

LOCATION

The University is located in Orono, an attractive town of 3,400 population, with good schools and four churches. The extensive campus, situated about a mile from the business section, borders the Stillwater River, a branch of the Penobscot, and is of great beauty.

Orono is situated on the main line of the Maine Central Railroad, eight miles east of Bangor. It is half way between Kittery, the most southerly town in the State, and Fort Kent, the most northerly. It is not far from the center of population of the State. The campus, which is nine miles from Bangor and three from Old Town, is connected with both cities by a paved highway offering easy access by automobile. Cars of the Bangor Hydro-Electric Company also afford a half-hour trolley service in both directions.

Bangor, the third city of the State in size, has a population of about 29,000 and is an important business center. The location of the University gives students an opportunity to avail themselves of its social, religious, and other advantages. Old Town is a manufacturing city with about 7,200 inhabitants.

BUILDINGS AND THEIR EQUIPMENT

Balentine Hall (1914-1916).—The largest women's dormitory, with accommodations for 115 students. Named in honor of Elizabeth Abbott Balentine, secretary and registrar of the University, 1894-1913.

Colvin Hall (1930).—A women's dormitory with accommodations for forty-eight students. Named in honor of Dr. Caroline Colvin, Professor Emeritus of History and Government and the first dean of women at the University.

HANNIBAL HAMLIN HALL (1911).—A men's dormitory with accommodations for 152 students. Named for the Hon. Hannibal Hamlin, of Hampden and Bangor, the first president of the Board of Trustees.

THE MAPLES.—A building remodelled in 1931 to serve as a women's dormitory. It accommodates forty-six students.

NORTH HALL.—A women's coöperative dormitory with accommodations for twenty-nine students. It is maintained by the students under trained supervision.

OAK HALL (1937).—A modern, fireproof dormitory housing ninety-four men students. This new building like the "Oak Hall" built in 1871, which it replaces, is named for the Hon. Lyndon Oak, of Garland, a long-time member and president of the Board of Trustees.

SOUTH HALL.—A women's coöperative dormitory, located in the village of Orono, with accommodations for thirty-eight students. It is maintained at minimum expense by the students under trained supervision.

ALUMNI HALL (1901) contains administrative offices, a gymnasium for women, and a Little Theatre. It received its name because of contributions made by alumni to supply a part of the funds for its erection.

ALUMNI MEMORIAL, consisting of an Indoor Field, Armory, and Gymnasium, was erected as a memorial to the Maine men who died in the service of their country in the Spanish-American and World Wars. It cost nearly $500,000, and is the gift of alumni, faculty, and friends of the University. The Indoor Field (1926), one of the largest in the country, provides ample facilities for indoor track, winter baseball practice, and military drill. The Armory (1926) houses offices and classrooms of the military unit, including an indoor rifle range. The Gymnasium (1933) contains the offices of the Athletic and Physical Education departments, equipment and training rooms for handball, boxing, wrestling, and corrective exercise, shower and locker rooms for students, faculty, and visiting teams, and an auditorium with a seating capacity of approximately 2500, used for basketball, lectures, student assemblies, banquets, and dances.

AUBERT HALL (1914) houses the Departments of Chemistry and Chemical Engineering, Pulp and Paper Technology, and Physics. It was named in honor of Alfred Bellamy Aubert, professor of chemistry from 1874 to 1909.

COBURN HALL (1888) houses the Department of Botany and Entomology and the Department of Zoology. It was named for the Hon. Abner Coburn, of Skowhegan, a former president of the Board of Trustees and benefactor of the University.

Crosby Laboratory (1928) contains the laboratories of the Department of Mechanical Engineering. It was named for the Hon. Oliver Crosby, Class of '76, who bequeathed $100,000 for its construction.

Fernald Hall (1870), the oldest building on the campus, contains offices and classrooms used by the College of Technology, the offices of the Alumni Association and the Placement Bureau, the University Store, and the quarters of the Health Department. It was named in honor of ex-President Merritt Caldwell Fernald.

Holmes Hall (1888) is the building used by the Maine Agricultural Experiment Station. It received its name from Dr. Ezekiel Holmes, of Winthrop.

Library Building (1906) was erected and furnished by the generosity of Andrew Carnegie, who gave $55,000 for that purpose. The Hallowell Granite Works supplied the granite at a price equivalent to a gift of several thousand dollars.

Lord Hall (1904) is used by the Departments of Electrical Engineering and Mechanical Engineering. It was named for the Hon. Henry Lord, a former president of the Board of Trustees.

Merrill Hall (1931) is devoted to work in Home Economics. It was named in honor of the late Leon S. Merrill, dean of the College of Agriculture from 1911 to 1933.

Rogers Hall (1928) houses the divisions of Animal Husbandry and Dairy Husbandry of the Department of Animal Industry and contains laboratories for the manufacture of dairy products. It was named in honor of Dr. Lore A. Rogers, chief of research laboratories, Bureau of Dairy Industry, U. S. Department of Agriculture.

Stevens Hall (1924), with two wings constructed in 1933, supplies accommodations for the larger part of the work of the College of Arts and Sciences and also the School of Education. It was named in honor of Dean Emeritus James S. Stevens, for many years dean of the College of Arts and Sciences.

Wingate Hall (1892) is used by the Departments of Civil Engineering and Engineering Drafting and in addition contains the Technology Experiment Station laboratories. It was named for the Hon. William P. Wingate, a former president of the Board of Trustees.

Winslow Hall (1909) is used by various departments of the College of Agriculture and the Extension Service. It was named for the late Hon. Edward B. Winslow, of Portland, a former president of the Board of Trustees.

Minor buildings comprise the Agricultural Engineering Building, Horticultural Greenhouses, Milk House, Poultry Buildings, Research Building,

Stock Judging Pavilion, Mechanical Engineering Shops, Maine Christian Association Building, Observatory, Infirmary, Print Shop, Home Management House, the Central Heating Plant, the President's house, five residences occupied by faculty members, and various farm buildings.

MARINE STATION.—The University of Maine Marine Biological Station is located at East Lamoine on the northeast shore of Frenchman's Bay within fifty miles of the University. The buildings provide adequate housing for laboratories, research workers, students, and faculty. A pier with 400 foot frontage, row boats, and a motor boat, and various types of collecting apparatus facilitate marine investigation. Both research work and organized class work have been at times in operation at the Station.

FRATERNITY HOUSES.—The local chapters of Beta Theta Pi, Delta Tau Delta, Kappa Sigma, Lambda Chi Alpha, Phi Kappa Sigma, Sigma Alpha Epsilon, Sigma Chi, Theta Chi, Sigma Nu, and the Phi Eta Kappa Society have houses on the campus. The following chapters own houses in the vicinity of the University: Alpha Tau Omega, Phi Gamma Delta, Phi Mu Delta, and Tau Epsilon Phi on College Road, and Alpha Gamma Rho on Grove Street. These houses accommodate from twenty to fifty students each.

ATHLETIC FIELDS

ALUMNI FIELD.—Alumni Field, so called because funds required for its construction were contributed by the Alumni Association, is located at the northern end of the campus. It contains a quarter-mile cinder track, with a 220-yard straightaway, and is graded and laid out for football, and track and field athletics. It contains a grandstand with a seating capacity of 2,100 and also bleachers seating 4,600.

New varsity and freshman baseball fields, regarded as two of the best in New England and conforming to all major league field requirements, have been completed. A new freshman football field and additional territory for physical education purposes has been developed. Four new clay tennis courts are under construction to add to the one hard-surface court and the three clay courts which were finished recently. A new hammer field has been constructed.

ATHLETIC FIELD FOR WOMEN.—A field on the southern end of the campus consists of a regulation hockey field, archery range, seventy-five yards of cinder straightaway, and a twenty-four foot jumping pit. A field house on the western border has just been completed. It consists of a club room, a store room for athletic equipment, and kitchenette. Besides serving for instruction and rest for teams not in action, it is used for picnics, social gatherings, and as a reading room. Two new tennis courts were added to this plan during the fall of 1936 which will materially relieve the increased demand for instruction and recreation in tennis.

THE UNIVERSITY FARMS

The University farms consist of approximately 635 acres divided into two farms, one of which adjoins the campus while the other is located in Stillwater. The land under cultivation amounts to 258 acres, divided as follows: 208 acres for farm crops, ten acres for orchards, two acres for the forest nursery, eighteen acres for poultry lots, twenty acres for systematic forestry, and 377 acres of forest and pasture lands. These farm lands, together with the campus, make the University holdings at Orono and vicinity approximately 735 acres.

THE LIBRARY

The University Library contained at the end of the academic year 122,428 volumes and 31,782 pamphlets. In addition to the general collection of books it includes the following of a more special nature: Law Library, 5,600 volumes, the greater part of which are on deposit in the Court House at Bangor; Agricultural Experiment Station Library, 9,256 volumes, on deposit in the Library Building; a Reference Collection shelved in the Department of Physics. About 500 periodicals are subscribed for by the library; 200 received as gift or exchange; 200 received by the Agricultural Experiment Station.

The library is housed in a building erected in 1906 by gift of Andrew Carnegie. The reading and seminar rooms have seating accommodations for 150 students. In the seminar rooms are shelved German, French, Spanish, Italian, Greek, and Latin literature and language; and material relating to the State and the University of Maine. The two basement reading rooms contain the books and periodicals on the subjects of education and agriculture. The reference room contains a working collection of almanacs, atlases, concordances, dictionaries, encyclopedias, and yearbooks for the convenience of the student, and for use in the room.

Elementary instruction in the use of the library is given new students during Freshman Week. This includes lectures and practice in the use of the catalog and magazine indexes.

Books will be loaned to other libraries, to schools, and to graduates of the University when it can be done without interference with local needs. Transportation charges are payable by the borrower. Individuals wishing to borrow books should *first* consult their local librarian, who will forward the request, whenever necessary, to the State Library. The State Library acts as a clearing house for book loans between libraries in the State. When it cannot completely supply the material needed, the State Library may forward the request to another library. While the University Library is not equipped to supply books to individuals outside the University, it is glad to coöperate with the other libraries in the State in this manner.

Any book in circulation or shelved elsewhere on the campus may be recalled to the library at any time. All library books must be returned to the library before the close of the academic year in June for inventory, repair, and binding.

Library Hours

7 :45—9 :30 p.m. Monday—Thursday
7 :45—9 p.m. Friday
8 a.m.—5 p.m. Saturday
2 p.m.—9 :30 p.m. Sunday

COLLECTIONS

Art Collection

The art collection, assembled to facilitate the study of art history, consists of photographs, prints, engravings, polychrome reproductions, and plaster casts. The collection has a temporary home in the Library, the gallery of which is used for the exhibition of many of the plaster-cast reliefs and the larger framed works.

The University possesses several of the famous polychrome prints published by the Arundel Society. These and many other colored reproductions representing nearly all the great masters of Italian painting have been framed. The lecture room in the Library building contains framed examples of the work of the chief Florentine and Umbrian masters of the fourteenth and fifteenth centuries.

The art-teaching apparatus has been lately augmented by a Carnegie

Corporation gift of more than two thousand photographs and prints, bringing the total collection of this type of reproduction up to about seven thousand. This collection is being indexed and cataloged, and it will soon be available for the general reader in quest of data in various fields of historical research.

Exhibitions of prints and other items, some loans and the rest from the University collection, are arranged for a considerable part of the year in the faculty room in Stevens Hall, which has been turned into a temporary exhibition space to supplement the limited room available in the Library.

Scientific Collections

The biological collections are located in Coburn Hall.

ZOOLOGY.—These collections consist of a working collection of bird skins; a display collection of bird mounts; a study collection of various other groups of both vertebrates and invertebrates. These are arranged in the various rooms and laboratories where they are best available for purposes of class use.

BOTANY.—These collections are situated in room 24 on the second floor. The herbarium includes several collections of considerable value, the most important of which is the one made by the late Rev. Joseph Blake and presented to the University by Mr. Jonathan G. Clark, of Bangor. It contains more than 7,000 species of both flowering and flowerless plants, and represents more especially the flora of Maine and other New England States, but includes many forms from the Western United States, Mexico, and the West Indies, and a number from many of the European and Asiatic countries, and from Africa and Australia. The late Professor F. L. Harvey left to the herbarium the general collections accumulated during his connection with the University, and his special collection of the weeds and forage plants of Maine, comprising 300 species. Other important collections are Collins's Algae of the Maine Coast, Halsted's Lichens of New England, Halsted's Weeds, Ellis and Everhart's North American Fungi, Cook's Illustrative Fungi, Underwood's Hepaticae, Cummings and Seymour's North American Lichens.

GEOLOGY.—The geological collections of minerals, rocks, and fossils are stored on the third floor in Fernald Hall. One large wallcase, containing mineralogical specimens, is located on the first floor of Winslow Hall.

UNIVERSITY PUBLICATIONS

MAINE BULLETIN.—A publication issued monthly from August to May inclusive with two issues in the month of March, to give information to the alumni and the general public. It includes the Biennial Report, the Summer Session Bulletin, and the Annual Catalog.

UNIVERSITY OF MAINE STUDIES, SECOND SERIES.—A series of research studies by members of the faculty and graduate students, published under the direction of the Faculty of Graduate Study.

ANNUAL REPORT OF THE AGRICULTURAL EXPERIMENT STATION AND THE AGRICULTURAL EXPERIMENT STATION BULLETINS.—These give complete results of the investigations by the Station and the results of the inspections of agricultural seeds, commercial feeding stuffs, commercial fertilizers, drugs and foods, and fungicides and insecticides.

OFFICIAL INSPECTIONS are published by the Agricultural Experiment Station, and contain the result of the work of inspection of agricultural seeds, commercial feeding stuffs, commercial fertilizers, drugs, foods, fungicides and insecticides.

EXTENSION BULLETINS, NEWS, AND RADIO RELEASES are issued by the Extension Service. Single copies of bulletins and circulars will be mailed to any Maine resident who makes the request. News releases are sent to all daily and weekly newspapers. Radio releases are issued each week to four coöperating broadcasting stations in Maine.

TECHNOLOGY EXPERIMENT STATION PUBLICATIONS consist of bulletins giving the results of investigations and research, and are usually sent free of charge on request.

THE MAINE ALUMNUS, published nine times during the academic year by the General Alumni Association, is sent to former students of the University.

Student publications are described in the section "Student Activities"

HEALTH SERVICE

The Health Department offers certain services, including medical examination, clinic, infirmaries, and isolation to those students paying the health fee. The staff is composed of a University doctor and two nurses. Students, however, are free to consult any physician they desire but at their own expense. A clinic service, located at 20 Fernald Hall, is available daily except Sunday. There is an infirmary for men in Hannibal Hamlin Hall and one for women in Balentine Hall. The University Health Service cannot treat patients suffering with chronic illnesses, those requiring surgical treatment or those in need of the services of a specialist.

TEACHERS' REGISTRATION BUREAU

A registration bureau for teachers, located in the office of the Dean of the School of Education in Stevens Hall, undertakes to assist properly quali-

fied graduates and former students in securing positions. All seniors who plan to teach are urged to register with the committee. Correspondence with officials who are looking for teachers is welcomed. No fee is charged for this service to students.

PLACEMENT BUREAU

A University Placement Bureau was inaugurated in 1935 by the University in coöperation with the General Alumni Association to offer to graduates and employers a central bureau of information. The Bureau is administered with a threefold purpose, namely: (1) to discover and to increase the opportunities for employment of Maine graduates in all fields of work other than teaching; (2) to gather complete information about graduates for employers and about business concerns and trends for graduates and to help them make valuable contacts in their chosen fields; (3) to coöperate with the University departments in helping graduates to discover the kind of employment for which they have both training and interest so as to decrease as much as possible the changes and readjustments of postgraduate employment.

The Bureau is primarily designed to offer to the recent graduate all the assistance possible in solving the problem of unemployment, while recognizing that in the final analysis the actual obtaining of work must depend on the individual. No charge to students, first-year graduates, or employers is made, although a nominal fee to cover clerical costs is charged older alumni wishing to register. The duties of the Bureau also include the attempt to secure part-time work during the college year and summer employment for undergraduates. The Bureau endeavors to assist the greatest number of students possible, both graduate and undergraduates, to locate satisfactory employment, and will welcome inquiries from employers regarding its policies and services.

STUDENT ACTIVITIES

Cooperative Government

STUDENT SENATE.—The Student Senate comprises representatives from the following groups: (a) the several fraternities, (b) the Women's Student Government, (c) the dormitories, (d) the off-campus men. As an assembly truly representative of the student body, it is recognized by the faculty and the administration as the official organ of the student body in all matters that call for discussion and adjustment between the student body and the administration. The Senate is empowered to investigate any question relative to the

student body or any member thereof and to recommend action on the same to the administration. The Senate is empowered to summon before it any student or students for trial or testimony.

WOMEN'S STUDENT GOVERNMENT ASSOCIATION.—All women registered at the University of Maine are members of this association. The purpose of the organization is to encourage among the women of the University an active sense of responsibility for self government. It also attempts to promote the highest standards of honor and integrity in all matters of personal conduct. The association enacts whatever laws are necessary to maintain congenial relationships on the campus.

Religious Activities

MAINE CHRISTIAN ASSOCIATION.—The Maine Christian Association, open to all students, has as its object the promotion of Christian fellowship, knowledge, and service. The work is done by student committees, under the guidance of a man and a woman secretary and a group of coöperating pastors. The Association conducts religious services, discussions of practical student questions and social problems, holds retreats, sends out religious deputations to churches and schools, brings comfort to the sick, and in general seeks to meet the spiritual needs of the students. The secretaries act as representatives of several coöperating denominations. The work centers in the Maine Christian Association Building, which also serves as a union building for student activities. Its rooms for reading, rest, recreation, meals, study, and worship are open all day.

Honor Societies

There are at the University a number of honor societies designed to recognize attainment and promise in its various divisions. These elect to membership at regular intervals according to their respective standards, those students whom they desire to honor. The tabulation below shows the scope of each society.

PHI KAPPA PHI.—All colleges and the School of Education.
ALPHA ZETA.—Agriculture.
KAPPA DELTA PI.—School of Education.
OMICRON NU.—Home Economics.
PHI BETA KAPPA.—College of Arts and Sciences.
TAU BETA PI.—Engineering.
XI SIGMA PI.—Forestry.

Professional and Departmental Organizations

Many departments or divisions of the University sponsor an organization to bring together students having a common interest. Such clubs with the subject in which each specializes follow.

Professional Societies

Alpha Chi Sigma.—Chemistry, Chemical Engineering, and Pulp and Paper Technology.

American Chemical Society.—Chemistry, Chemical Engineering, Pulp and Paper Technology.

Student Branch of the American Society of Civil Engineers.

Branch of the American Institute of Electrical Engineers.

American Society of Mechanical Engineers.

Branch of the American Home Economics Association.

Kappa Phi Sigma.—Education.

Scabbard and Blade.—Military.

Departmental Clubs

Agricultural Club.

Circulo Español.—Spanish.

College 4-H Club.—Boys' and Girls' Agricultural and Home Economics Clubs.

Contributors' Club.—Creative writing.

Delta Pi Kappa.—Music.

Deutscher Verein.—German.

Education Club.

Forestry Club.

Home Economics Club.

Kappa Gamma Phi.—Journalism.

Maine Masque.—Dramatics.

Sigma Delta Zeta.—Mathematics.

Sigma Mu Sigma.—Psychology.

Sodalitas Latina.—Latin.

Musical Organizations

University Band.—This organization is attached to the Military Department. Rehearsals are credited as regular class work under the Military and Music Departments. A particular aim is to develop leadership, and to this end, in coördination with the course in interpretation and conducting in the

Music Department, students properly qualifying are coached to conduct the concert presentations of the band. The band plays for various university functions and games and gives concerts.

University Chorus.—This organization, open to both men and women students, has for its objective the study and public performance of choral music. Participation in college assemblies, student concerts, a National Music Week oratorio concert with the Bangor Symphony Orchestra, and the annual Bangor Music Festival comprises the program. The sharing in programs at the Festival with world-famous musicians and concert artists renders this choral work inspiring and memorable. The chorus is conducted by the Professor of Music as class work, for which students receive credit. Conditions of membership are listed under the Department of Music (Courses 25, 26).

University Orchestra.—This organization, recruited from the outstanding student talent, devotes weekly rehearsals to the study of standard and symphonic music. Its repertoire is presented in concerts on and off the campus. It accompanies the University Chorus and soloists in the annual Music Night program. Credit is granted for orchestra participation. Conditions are listed under the Department of Music (Courses 27, 28).

Social Fraternities and Sororities

The following fraternities and sororities have chapters, the figures in parentheses giving the dates chapters were established at the University.

Fraternities.—National: Beta Theta Pi, (1879); Kappa Sigma (1886); Alpha Tau Omega, (1891); Phi Kappa Sigma, (1898); Phi Gamma Delta, (1899); Sigma Alpha Epsilon, (1901); Sigma Chi, (1902); Theta Chi, (1907); Delta Tau Delta, (1908); Lambda Chi Alpha, (1913); Sigma Nu, (1913); Phi Mu Delta, (1923); Alpha Gamma Rho, (1924); Tau Epsilon Phi, (1929). Local: Phi Eta Kappa, (1906).

Sororities.—National. Alpha Omicron Pi, (1908); Phi Mu, (1912); Delta Delta Delta, (1915); Pi Beta Phi, (1920); Chi Omega, (1921).

Student Publications

Maine Campus.—A newspaper published weekly during the academic year by an editorial board composed of students.

The Maine Review.—A quarterly magazine under student management, designed to express the various intellectual interests of the University.

Prism.—An illustrated annual published by the junior class.

Men's Debating Society

The Debating Society is open to all students interested in forensic work. Questions of public interest are discussed. The members make a special study of the questions used for intercollegiate debating. From this group representatives are chosen to speak before luncheon clubs, grange meetings, and community gatherings, and to participate in the intercollegiate debates.

The University of New Hampshire, Bates College, Rhode Island State College, New York University, Rutgers University, the University of Vermont, Boston University, Massachusetts State College, Bowdoin College, and Colby College are among the institutions usually scheduled for these debates, which are frequently of a dual nature. Members of this society are selected to represent the University on a debating tour of Eastern institutions.

Women's Forum and Debate

Women's Forum is an outgrowth of the more formal work in debate. The forum meets once in every three weeks for the purpose of discussing informally subjects of special interest to its members. Women's intercollegiate debating is sponsored by the forum; however, no one is obligated to participate in this phase of the activity.

Women interested in formal debate have the opportunity, as in the past, to meet teams from other colleges. During the past years, the teams have taken part in debate with nearly every outstanding college in the east.

CHURCH SERVICES

Students receive a cordial welcome at the services of the churches of Orono—the Methodist Episcopal Church, St. John's Universalist Church, St. Mary's Roman Catholic Church, and the undenominational Fellowship Church. Other denominations are represented at Old Town and Bangor.

ADMISSION

ADMISSION TO THE FRESHMAN CLASS

General Requirements

Candidates for admission to the freshman class should apply to the Director of Admissions for an application card and other necessary blanks. These blanks should be returned promptly together with the application fee of $10 (and room deposit of $15 if a dormitory room is desired). *It is advisable to file application as early as April first to facilitate admission and room assignment for entrance the following September.*

Candidates must present satisfactory certificates of fitness, or pass the required examinations, and on registration day make a cash deposit covering the bills of one semester. The University admits men and women, both residents of Maine and non-residents; it reserves the right to terminate admission whenever the capacity of the University to care properly for the students has been reached.

It is requested that all entering students submit a certificate from a physician stating that they have been vaccinated for smallpox within the past seven years. If the applicant has not been vaccinated within this period it is recommended that he or she be vaccinated *early in the summer* in order to be well over the effects of the inoculation, if any, before the opening of college.

Admission from Schools in Maine

Graduates of Maine high schools or academies may be admitted on their school records provided they have completed, with recommending grades, a course of study including all the subjects needed for admission to the curriculum that they wish to follow (see page 56) and are fully recommended by their principal.

The University is interested in candidates whose character, scholastic attainments, aptitudes, interests, industry, and habits of study give definite promise of success in college work. If a candidate has a poor record during his last year or shows weakness in any subject vital to the curriculum he wishes to take in college, he may be refused admission. In general, greater weight will be given to the character of the candidate's work in the latter part of his course than to his earlier record.

Final decision regarding each candidate will be made by the University. In reaching such decision both the candidate's school record and the additional information called for below will be considered:

A. From the student. The candidate is required to submit a carefully answered questionnaire concerning favorite studies, school activities, community interests, hobbies, choice of college course, choice of a life work, and other matters bearing upon preparation for a college course. So far as possible, a personal interview will be arranged with each candidate. This information is required so that the University may better guide the students in selecting courses of study best suited to their individual abilities, aptitudes and interests.

B. From the principal and others. The principal, teachers, and adult acquaintances, known to the applicant, are asked to give confidential information regarding character, personality, school and community activities, and intellectual capacity and ability to successfully pursue a college course.

Candidates from Maine schools may also gain admission by supplementing their school records with satisfactory grades through specified entrance examinations.

Admission from Schools Outside of Maine

Candidates from secondary schools outside of Maine may be admitted on certificate of the principal, provided the school is accredited by its state university or the recognized accrediting agency of the state or region in which the school is located, or by entrance examinations of the University of Maine. Certificates issued by the regents of the University of the State of New York are accepted for any of the subjects in which admission credit is allowed, provided they have been passed with satisfactory grade. Supplementary information is also required as stated in paragraph "B" under "Admission from Schools in Maine."

Admission by Examinations

Entrance examinations are held at Orono before the fall registration of freshmen. A schedule of the examinations will be furnished on request. Candidates for admission who wish to be examined in the spring can take the examinations at their own school, provided the principal is willing to arrange for giving the tests. These examinations are given during the fourth week in May. On request of any principal the University will send the necessary examination papers. Such requests should be received before May 12.

The examinations given by the College Entrance Examination Board will be accepted by the University. These examinations will be held during the week June 19-26, 1937. All applications for these examinations must be addressed to the Secretary of the College Entrance Examination Board, 431

West 117th Street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application. Application must be made before May 31 and must be accompanied by the examination fee of $10.00.

Information on Freshman Week

About August 12 parents of each candidate admitted will receive from the Registrar's office a letter giving detailed instruction about arrangements for Freshman Week. Parents of candidates admitted after August 12 will receive the information at the time the candidate is admitted to the University.

Reports to Parents

The record of every freshman will be carefully reviewed at the end of eight weeks and again at the close of the first half-year's work. Reports are sent to parents at each of these dates.

Subject Requirements

Requirements for the individual colleges are as follows:

College of Arts and Sciences

English	3	units
Foreign language (three years in one or two in each of two)	3 or 4	"
History	1	unit
Mathematics (Algebra and Plane Geometry)	2	units
Electives	6 or 5	"
Total	15	units

College of Agriculture
(Including Forestry and Home Economics)

English	3	units
†*Algebra	1	unit
*Plane Geometry	1	"
Science	1	"
History	1	"
Electives	8	units
Total	15	units

College of Technology

English	3	units
Foreign language (two years in one)	2	"
Algebra	2	"
Plane Geometry	1	unit
History	1	"
Science	1	"
Electives	5	units
Total	15	units

Elective Units

The electives may be selected as shown in the following table. Subjects not listed may be accepted among the electives, provided they represent a satisfactory equivalent for any of those named. In general, it is advisable that the electives be taken from the fields of language, mathematics, natural science, and social science.

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* For admission to the Home Economics curriculum, two units in mathematics acceptable to the Committee on Admissions are required.

† For admission to the Forestry curriculum two units in algebra are recommended.

Subjects	Units Accepted		Units required and units accepted in the several colleges					
			Arts and Sciences		Agriculture		Technology	
	Min.	Max.	Req.	Acc.	Req.	Acc.	Req.	Acc.
English	3	3	3	3	3	3	3	3
French	*2	4	Three units in one language or two in each of two	2, 3, or 4		1, 2, 3, or 4	Two units in one language††	1, 2, 3, or 4
German	2	4		2, 3, or 4		1, 2, 3, or 4		1, 2, 3, or 4
Greek	2	3		2 or 3		1, 2, or 3		1, 2, or 3
Latin	2	4		2, 3, or 4		1, 2, 3, or 4		1, 2, 3, or 4
Spanish	2	3		2 or 3		1, 2, or 3		1, 2, or 3
Algebra (Elem.)	1	**2	1	2	§1	2	2	2
Plane geometry	1	1	1	1	§1	1	1	1
Solid geometry	½	½		½		½		½
Trigonometry	½	½		½		½		½
Algebra (Adv.)	½	½		½		½		½
History	1	4	1	1, 2, 3, or 4	1	1, 2, 3, or 4	1	1, 2, 3, or 4
Civics	½	1		½ or 1		½ or 1		½ or 1
Economics	½	1		½ or 1		½ or 1		½ or 1
Biology	†1	1		1	One unit in Science	1	One unit in Science	1
Botany	†1	1		1		1		1
Chemistry	†1	2		1 or 2		1 or 2		1 or 2
Physics	†1	2		1 or 2		1 or 2		1 or 2
Physiography	½	1		½ or 1		½ or 1		½ or 1
Physiology	½	1		½ or 1		½ or 1		½ or 1
Zoology	†1	1		1		1		1
General Science	½	1		½ or 1		½ or 1		½ or 1
Agriculture	1	4	Not over two units in all of these		Not over five units in all of these		Not over four units in all of these	
Domestic Science and Art	1	4						
Drawing	‡½	2						
Manual Training	‡½	2						
Commercial Subjects	½	4						
Music	½	1		½ or 1		½ or 1		½ or 1
Bible Study	½	1		½ or 1		½ or 1		½ or 1
Debating	½	1		½ or 1		½ or 1		½ or 1

*The minimum accepted in foreign languages applies to the College of Arts and Sciences only.

**Two units credit for elementary algebra completed. Technology can-

didates are expected to take some mathematics during their last year in school.

†The work in these subjects must include laboratory work with note-book, as specified in the detailed statement.

‡Credit for these subjects and for bookkeeping and typewriting is at the rate of one-half unit for a subject taken five forty-five minute periods per week for a year.

§See both footnotes at bottom of page 57.

††Latin or French preferred.

Requirements in Detail

ENGLISH

The entrance examination in English presupposes a study of English literature and of composition and rhetoric pursued throughout the preparatory school course. Candidates are expected to have had practice in writing equivalent to at least one composition a week during each of the four years in high school, and to have studied the elements of rhetoric in some such text as, for example, Tanner's *Rhetoric and Composition.*

The examination is designed mainly to test the candidate's ability to express his thoughts correctly and clearly. It is quite possible to answer all questions on the literature correctly, and yet fail on the examination as a whole because of crude and ungrammatical English. Candidates are advised to give special attention to sentence construction, grammar, idiomatic usage in words and phrases, spelling, punctuation as a means of securing clearness, and paragraph formation.

A portion of the examination will be devoted to questions on the works in English and American literature customarily studied in high school. These are designed to reveal how thorough and intelligent has been the student's understanding of what he has read.

FOREIGN LANGUAGES

LATIN.—The following requirements are based upon a report to the College Entrance Examination Board in 1925.

I. *Amount and range of the reading recommended.* There are no prescribed readings in Latin, but the following recommendations are made:

1. In the second year the pupil should read easy Latin of gradually increasing difficulty. This may consist in part of "made" or adapted Latin. Not less than one semester of this year should be devoted to the reading of selections from Caesar. The reading for the year may also include easy selections from such authors as Aulus Gellius, Eutropius, Nepos, Phaedrus, Quintus Curtius Rufus, and Valerius Maximus.

2. In the third year, if the reading is in prose, not less than one semester should be devoted to the reading of selections from Cicero. The reading for the year may also include selections from such authors as Pliny, Sallust, and Livy.

3. In the fourth year, if the reading is in poetry, not less than one semester should be devoted to the reading of selections from Vergil. The reading for the year may also include selections from such works as the *Metamorphoses, Tristia, Heroides,* and *Fasti* of Ovid, or books of selections containing poems or extracts from Ovid or other poets.

II. *Description of the examination.* The examination aims to test the proficiency of those who have studied Latin in a secondary course of five lessons each week extending through two, three, or four years. (An examination on forms, syntax, and easy translation is provided for candidates in Agriculture and Technology offering one year of Latin, and for candidates in Arts offering one year of Latin taken in the last two years of the high-school course.)

The paper will include:

1. Passages of Latin prose and verse for translation.

2. Passages of Latin prose and verse for comprehension. Candidates will be asked questions to test their understanding of these passages but will not be required to translate them.

3. English passages to be translated into Latin for candidates presenting two or three years of Latin. Candidates presenting four years of Latin in one examination will also be expected to answer these questions.

4. Questions on forms, syntax, and idioms in these passages, as well as such questions on subject matter, historical and literary, as may fairly be asked.

Credit will be given for passing the following College Entrance Board Examinations: Cp. 2, Cp. 3, Cp. 4, Cp. H, and Cp. K.

III. *Latin Word List.* The College Entrance Examination Board has prepared a Word List which indicates the vocabulary that students are expected to have at the end of two, three, and four years of study. Students will be expected to know accurately the words in this list.

FRENCH—I. *Elementary.*—Students who desire to receive credit for two units of high-school French should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life or based upon a portion of the French text read, and to answer questions on the fundamentals of French grammar.

II. *Intermediate.*—Those who desire credit for three units should be able to read modern prose and verse of moderate difficulty and to write a

composition upon any subject within the range of everyday experience. Such students should also have a thorough knowledge of French grammar as presented by the Fraser and Squair and other textbooks of the same type, including a thorough study of the uses of the conditionals and subjunctives, and in general of such material as may have been in the work of the first two years.

The examination of the College Entrance Certificate Board in Elementary French will be accepted for two units, and that in Intermediate French for one additional unit.

GERMAN—*Elementary.*—The first year's work should comprise: Careful drill upon pronunciation and oral work; the rudiments of grammar including the inflection of nouns, pronouns, and adjectives; the conjugation of the more common weak and strong verbs; the use of the more common prepositions; the conjugation and meanings of the modal auxiliaries; the elementary rules of syntax and word order; dictation and elementary composition; the reading of 75 to 100 pages of prose and poetry.

The second year's work should include the continued study of the grammar and composition, and the reading of 150 to 200 pages of literature.

The advanced German should include constant practice in conversation and composition, and the reading of about 400 pages of moderately difficult prose and poetry.

SPANISH—*Elementary.*—The equivalent of Course 1, 2 offered by the University. The first year's work is expected to familiarize the student with the fundamental principles of grammar, special stress being laid on the study of verbs and pronouns. Dictation, the translation of simple Spanish when spoken, and some translation into Spanish to illustrate principles of grammar will be employed. About 150 pages of modern prose will be read. In the second year in addition to the continued study of the grammar and the use of suitable exercises similar to those employed in the preceding year there should be read from 300 to 400 pages belonging to modern Spanish literature.

HISTORY

One unit is required by all colleges of the University for entrance. Four may be offered.

The student will be expected to show judgment as well as memory and be able to make comparisons and give summaries. Some knowledge of geography is required, and collateral reading is essential.

I. *Greek and Roman History.*—One unit.

Greek History.—To the death of Alexander with due consideration of Greek life, literature, and art. One-half unit.

Roman History.—To 800 A.D. with emphasis on government and institutions. One-half unit.

II. *English History.*—A general knowledge of the political and social development of England; in particular the growth of the limited monarchy with parliamentary government and the British Empire and Commonwealth. One unit.

III. *American History.*—Including civics and with especial attention to social and economic life. One unit.

IV. *Medieval and Modern History.*—One unit.

Medieval History.—To 1500. One-half unit.

Modern European History.—From 1500 to the present. One-half unit.

V. *World History.*—Beginning with ancient civilization and coming down to the present time. One unit.

MATHEMATICS

Algebra.—As algebra is a necessary foundation for successful work in advanced mathematics, all candidates expecting to continue mathematics in college should have a thorough knowledge of elementary algebra. They should offer two units.

Algebra to Quadratics.—One unit. The usual first-year course should give facility in factoring, simplification of fractions, solution of simple equations in one and two unknowns, use of graphs, exponents and radicals (simple forms), ratio and proportion.

Quadratics and Beyond.—One unit. Quadratic equations, systems of equations in which at least one is of a degree above the first, progressions, binomial theorem with integral exponents, exponents and radicals, logarithms.

Trigonometry.—One-half unit. A half-year course with any standard textbook covering the definitions of the functions, the proofs of the standard formulas, the solution of right and oblique triangles by natural functions and by logarithms. Simple applications of trigonometry.

Plane Geometry.—The usual theorems and constructions which treat the general properties of plane rectilinear figures, the circle and the measurements of angles, similar polygons, areas, regular polygons, and the measurement of the circle.

Solid Geometry.—The usual theorems and constructions which treat the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

Advanced Algebra.—Permutations and combinations with applications of the theory limited to simple cases; complex numbers with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders; methods of evaluating such determinants including the method involving the use of minors; the application of determinants to the solution of systems of equations of the first degree; so much of the theory of

equations including graphical methods, Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots, as is necessary for the solution of equations of higher degree with numerical coefficients; also the application of the theory to the solution of equations of this type.

SCIENCES

Biology.—This may consist of a continuous course for one year dealing with the problems of general biology, including the study of the structure, functions, and habits of both plants and animals; a course for one year in botany alone; a course for one year in zoology alone; or a course for one-half year in human physiology. The human physiology may be arranged to form a part of the general biology, or of the zoology; but in such cases it must be treated as an integral part of the subject under consideration.

The requirements in botany and zoology are the same as those of the College Entrance Examination Board, and are outlined in the syllabus of the Board. The notebook should include properly labeled drawings, and descriptions of experiments, representing as much of the work in this syllabus as may be practicable, and should be the record of a year's laboratory work in the subject. The making of an herbarium is optional.

Chemistry.—Preparation in chemistry should embody a reasonable grasp of the basic principles of the science, which can be secured by a continuous course of one year dealing with the common metallic and non-metallic elements in terms of fundamental chemical laws; familiarity with laboratory technique; and a permanent record of laboratory work in clear, concise English. A good elementary textbook and laboratory manual will furnish the basis for this preparation.

Physics.—The necessary preparation is covered in one year in a good fitting school. This covers the fundamental facts in mechanics, heat, light, sound, electricity and magnetism. A two-hour laboratory period per week should be a part of the course. Approximately forty exercises should be covered in the laboratory. It is expected that the principal submitting a credit in physics will vouch for a satisfactory notebook.

ADMISSION OF SPECIAL STUDENTS

In exceptional cases a person may be classified as a special student. Such a student is not a candidate for a degree but will be registered by the dean or deans concerned.

Admission to the Two-Year Course in Agriculture.—Candidates for admission to the Two-Year Course in Agriculture must have satisfactorily completed two years of high-school work.

ADMISSION BY TRANSFER

A student desiring to transfer to the University of Maine from another college of recognized standing must present the following credentials:

A statement of his entrance record.

A statement showing a complete record of his work while in attendance including faculty action, if any.

A letter of honorable dismissal.

These credentials must be sent directly from the Registrar's office and should be addressed to the Registrar of the University of Maine.

Applicants should notify the Registrar whether they desire admission to the College of Agriculture, the College of Arts and Sciences, the School of Education, or the College of Technology. A college catalog should be mailed unless the Registrar knows that the University of Maine is on the permanent mailing list.

REGISTRATION

FRESHMEN.—All members of the incoming freshman class are REQUIRED to be in residence on the campus during the period known as Freshman Week. The dates are announced in the calendar in the front of the catalog. Following the general plan employed since its establishment, it will be devoted to tests of various sorts whereby the University authorities may obtain more accurate information concerning the type and degree of mental qualifications of the new students, and to lectures and demonstrations by which the students may be more intelligently informed of the University and its customs.

NO EXCUSES FOR NON-ATTENDANCE OTHER THAN ILLNESS CERTIFIED TO BY A PHYSICIAN IN GOOD STANDING WILL BE ACCEPTED.

UPPERCLASSMEN.—In the fall semester of 1937, upperclassmen will be required to register on September 21, or to present written evidence that they have been excused from so registering by the University authorities. In other words, upperclassmen must before September 21 have communicated with the dean of their college giving him their reasons for desiring to register late, and have received from him written authorization so to do. In the event of an unusual circumstance wholly beyond the control of the student, and occurring just prior to the opening of the fall semester, the student may present his case in person to the dean upon his arrival at the University. Late registration is a handicap both to students and to University authorities, and will be rigidly discouraged whenever and wherever possible.

STUDENT EXPENSES

A partial list of necessary expenses is indicated below. It includes only items which are fairly uniform for all students. The estimates are prepared upon the basis of students living in University halls. Board and room in North and South Halls are somewhat less than indicated below.

	Students from within the State			Students from without the State		
Tuition	$150.00			$250.00		
Textbooks	25.00	to	50.00	25.00	to	50.00
Board 34 weeks @ $6.50	221.00			221.00		
Room in Dormitory	85.00			85.00		
Special Assessment for Athletics & Debating	10.50			10.50		
Health Service Fee	2.00			2.00		
	$493.50	to	$518.50	$593.50	to	$618.50

The tuition for students taking the Two-Year Course in Agriculture is $70.00 a year. Such students do not pay the special assessment for athletics and debating.

Application for Admission

A fee of $10.00 is required at the time of application. Checks should be made payable to the University of Maine. This fee is refunded if the applicant is not admitted. When the applicant enters the University the fee will be applied toward payment of the first semester's tuition.

Application for Room

A deposit of $15.00 is required at the time application is made for a room. If a student is unable to enter, the deposit will be refunded, provided the room is given up on or before August 1. If notice of withdrawal is given on or before September 1, $10.00 will be refunded. In case of withdrawal after September 1, the entire deposit is forfeited, but may be applied toward the payment for a room if the applicant enrolls in the University the following year.

When a student enters the University the deposit of $15.00 will be applied toward payment of dormitory charges.

Special Charges

A fee of $2.00 is charged a student for each special examination.

Students registering after the prescribed day of registration for the fall or spring semester shall pay an additional fee of $2.00.

Rooms

The rooms in the Maples, a freshman dormitory for women, accommodate one, two, or three students.

The rooms in Balentine Hall, accommodating one and two students each, and those in Colvin Hall, accommodating two and four students each, are available to all women students. The rooms in North and South Halls, the coöperative dormitories for women, accommodate two students each and are available to all women students. There is, however, a selection based on financial need, coöperation, and satisfactory scholarship.

The rooms in Oak Hall and the middle section of Hannibal Hamlin Hall accommodate two students each; the north and south sections of Hannibal Hamlin Hall accommodate four students each. Oak Hall and Hannibal Hamlin Hall are freshman dormitories for men.

Dormitory charges include steam heat and electric lights. The rooms in the dormitories are furnished with beds, mattresses, chiffoniers, desks, and chairs. Each resident in the dormitory has bed linen and three towels laundered each week without extra charge. Students furnish pillows, bed linen, and blankets.

Women students not living at home are required to live in one of the women's dormitories. In exceptional cases women students are allowed to live at some boarding house approved by the Dean of Women.

Applications for dormitory rooms should be addressed to the Registrar.

Gymnasium Uniform for Women

Every woman will be expected to purchase a prescribed uniform before coming to college. Information regarding uniform and place where it can be bought will be sent with admission cards. The approximate cost of the uniform is $15.00.

All women students who are using locker rooms and shower baths will be assessed fifty cents each semester for the use of towels. This assessment will be added to the term bill at the end of each semester.

Deposits to Cover Expenses

The University *requires all students to pay in advance.* The payments indicated below are required at the beginning of each semester.

Deposit	Residents of Maine	Non-Residents of Maine
Tuition	$ 75.00	$125.00
Board and Room	153.00	153.00
Key Deposit (men only)	5.00	5.00
Military Deposit (required of all men taking military instruction)	30.00	30.00
Special Assessment for Athletics and Debating	5.25	5.25
Health Service Fee	1.00	1.00
Freshman Week (Freshmen only)	8.00	8.00
	$277.25	$327.25

For students who do not room and board in University halls the above amounts are reduced by $158.00.

All men taking military are required to make a deposit of $30.00 to cover cost of equipment. This deposit is returned at the end of the year, less a charge for goods furnished, plus a charge for lost and misused equipment.

For students in the Two-Year Course in Agriculture the deposit required for tuition is $35.00.

Diploma Fee

All students receiving a degree are required to pay a diploma fee of $5.00.

Communications

Communications with reference to financial affairs of students should be addressed to the Treasurer of the University of Maine.

LOAN FUNDS

Application for loans should first be made to the Dean of Women by women students and to the Dean of Men by men students. Where requirements make necessary a different handling of loans, either of these officials will refer the request to the proper person.

KITTREDGE FUND.—This fund, amounting to over $2200, was established by Nehemiah Kittredge, of Bangor. It is in the control of the President and the Treasurer of the University, by whom it is loaned to needy students in the three upper classes. Individual loans are limited to $50.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS LOAN FUND.—This fund, now amounting to $185, was established by the University of Maine Branch in 1918 for the purpose of assisting needy students majoring in electrical engineering.

BOSTON ALUMNAE FUND.—This is a fund now amounting to over $550, available for women of high scholastic standing who have completed at least two years of college work. Loans shall in no case exceed $200.

MAINE CAMPUS FUND.—This fund, the gift of the Maine *Campus*, amounting to $450, is loaned to juniors and seniors whose conduct and scholarship are satisfactory, preference being given to those interested in the literary activities of the University. Amount loaned is limited to $50 per person. Loans must have the endorsement of a satisfactory second party.

CLASS OF 1926 LOAN FUND FOR SENIORS.—This fund, the gift of the Class of 1926, amounting to over $1200, is loaned to seniors of good scholastic standing during the last semester of their senior year. Amount loaned is $50 per person, exceptional cases to be allowed $100.

CARLETON ORCHARD FUND.—This fund originated in the gift to the State of Maine by James A. Gregory of one interest-bearing first mortgage bond for $1000, the interest on which was to be used for the promotion of scientific orcharding in Maine. At first administered by the Maine Department of Agriculture, the income from this bond was transferred in 1925 to the College of Agriculture of the University "for the assistance of needy students who shall be residents of the State of Maine, majoring in horticulture at the said college of agriculture."

MARY S. SNOW MEMORIAL FUND.—Students and friends of Mary S. Snow, one-time superintendent of schools in Bangor, and later a leader in home economics education, have established as a tribute to her memory a loan fund to be used in helping earnest and deserving young women secure a home economics education at the University of Maine. The fund at present amounts to over $4150. Loans may be granted to young women of such character and scholarship as give promise that the education thus made possible will be of genuine value to the students and to society.

WOMEN'S LOAN FUND.—This fund was inaugurated by the American Association of University Women, University of Maine Branch, in 1925. It provides for loans to undergraduate women of the University who have successfully completed one or more years of university work, and have been found by the University to be thoroughly satisfactory in regard to character, schol-

arship, and general ability, and to be in genuine need. The fund amounts at present to $1800; and loans to one student shall not exceed $200 a year.

DRUMMOND FUND.—This fund of $1000 was established in memory of Frank Hayden Drummond, of Bangor, by his widow and children. It is loaned to needy students of good character who have attained an average of C or its equivalent.

AMERICAN PULP AND PAPER MILL SUPERINTENDENTS' ASSOCIATION FUND.—This fund amounts to $2500. The income is to be used to improve instruction and aid investigations in pulp and paper chemistry and technology, to develop coöperation between pulp and paper mill superintendents and young technical graduates, or to be loaned to meritorious students pursuing the pulp and paper course. A report is to be made annually to the Association.

GENERAL LOAN FUND.—This fund, now amounting to $2750, was donated by unknown friends, students, and faculty of the University. The first donation was made in May, 1930, and has been increased at various periods since that time.

THE BANGOR BUSINESS AND PROFESSIONAL WOMEN'S LOAN FUND.—This fund, now amounting to $850, was established by the Business and Professional Women's Club of Bangor, Maine, for needy and deserving women students, preferably from Bangor and vicinity, who have been in attendance at least two years and who have maintained an average grade of "C" or better. Loans shall not exceed $250 per student.

KAPPA PSI LOAN FUND.—This fund, amounting to $200, was donated by the Kappa Psi Sorority during the spring of 1933, to be used for the benefit of women students.

ESTHER AYRES CHAPTER, DAUGHTERS OF AMERICAN REVOLUTION LOAN FUND.—This fund, amounting to $200, is a gift of the Orono Chapter of the D.A.R. and is to be loaned to women students who are juniors or seniors.

CHARLES M. PAYSON LOAN FUND.—This fund, amounting to $5000, was given by Mrs. Charles M. Payson, of Portland, Maine, in memory of her late husband. It is to be loaned to needy students under such conditions as may be established by the University administration.

THE BERTHA JOY THOMPSON LOAN FUND, amounting to $10,000, was bequeathed, in trust, to the University of Maine by the late Mrs. Bertha Joy Thompson, of Ellsworth, Maine. The net income from the fund is to be used as a "Loan Fund" to be loaned to worthy, deserving and needy students of the University of Maine under such terms and conditions as the Board of Trustees may determine.

SCHOLARSHIPS AND PRIZES

Forms for making application for scholarships may be obtained from the Chairman of the Faculty Committee on Honors or from the Registrar's

Office, and should be returned to the Chairman before March 1. Candidates may, if they wish, apply for particular scholarships. No student whose record is unsatisfactory will be considered eligible for any scholarship award. Unless otherwise indicated, all awards are made by the Committee on Honors, subject to the approval of the President.

Scholarships available for graduate students are described in the section of the Catalog dealing with graduate study.

THE MERRITT CALDWELL FERNALD SCHOLARSHIP, $150, established by the Trustees in 1923 and named in honor of the first acting President of the University, is awarded to the junior student having the highest scholarship rank in the University.

THE JAMES STACY STEVENS SCHOLARSHIP, $150, established by the Trustees and named in honor of the first Dean of the College of Arts and Sciences, is awarded to the highest ranking student, resident of Maine, in the junior class in that college, the winner of the Fernald Scholarship being excepted.

THE HAROLD SHERBURNE BOARDMAN SCHOLARSHIP, $150, in Technology, in honor of the first Dean of the College of Technology and the President of the University from 1926 to 1934, is awarded on the same terms as the foregoing.

THE LEON STEPHEN MERRILL SCHOLARSHIP, $150, in Agriculture, in honor of the Dean of the College of Agriculture from 1911 to 1933, is awarded as are the foregoing.

THE CHARLES DAVIDSON SCHOLARSHIP, $150, in the School of Education, in honor of the first professor of education in the University, is awarded as are the foregoing.

THE UNIVERSITY SCHOLARSHIPS, fifteen, of $150 each, established by the Trustees in 1935, are awarded annually to students of high scholastic standing and intellectual promise whose general record is also satisfactory and who are in need of financial assistance. Preference is given to students residing in the State of Maine.

THE SECONDARY SCHOOL CONTEST SCHOLARSHIPS, eight, of $150 each, established by the Trustees in 1931, are awarded annually to the eight entering freshmen who as secondary school seniors have made the highest average rank in the State Senior Scholarship Contest sponsored by the School of Education, except that only one award may be given to any school. The highest ranking student of the eight selected is awarded a tuition scholarship for four years, the second highest for three years, the third for two years, and the five next in order for one year each. Each scholarship is awarded for one semester and will be continued in the second semester upon evidence of satisfactory work in the University. Only students whose schools enter the Contest and compete according to the rules furnished every year by the University may take the tests.

THE HOVEY MEMORIAL SCHOLARSHIPS, made available by a fund of $5900, established in 1932 by the Stone and Webster Corporation in honor of the late Francis J. Hovey, are awarded to students in the College of Technology, on the basis of scholastic attainment, character, and general promise. A scholastic standing of at least 3.00 must be attained to be eligible, and must be maintained during tenure. Award is made by the Dean and the heads of departments in the College, subject to the approval of the President, with preference given to students residing in the State of Maine.

THE CHARLES H. HOOD FUND SCHOLARSHIPS, seven, of $200 each, are available annually to men and women students of the College of Agriculture whose intention is to promote farming as a life opportunity. They are awarded by a committee comprising the Dean of the College of Agriculture as chairman, the head of the Department of Animal Industry, and the Treasurer of the University, and are distributed as follows: Two sophomore and two junior scholarships are granted to students whose scholastic standing for the previous year places them in the upper half of their class; and three senior scholarships are granted to students whose scholastic standing for the previous year places them in the upper third of the class. The junior and senior scholarships are further restricted to students specializing in some phase of dairy industry promotion.

THE W. H. BOWKER SCHOLARSHIPS.—The American Agricultural Chemical Company has established two scholarships in honor of W. H. Bowker, one of the first technically trained agricultural college graduates to utilize agricultural research in the manufacture of commercial fertilizers. These scholarships provide $300 each to pay two years' tuition in the College of Agriculture. One scholarship is to be awarded to some boy now studying vocational agriculture in any high school or academy in Aroostook County, or in Patten Academy, Penobscot County. The second scholarship is to be awarded to some boy now studying vocational agriculture in any high school or academy in the state. Each scholarship is to be awarded by a committee comprising the Dean of the College of Agriculture, the Professor of Agricultural Education, and the teachers of vocational agriculture in the section involved.

THE NORMAL SCHOOL SCHOLARSHIPS, three, of $150 each, are awarded on a competitive basis to normal school students who, after two years of training for elementary teaching, desire to transfer to preparation at the University for secondary school teaching. Only those are eligible whose normal school record places them in the highest decile of their class, whose principal recommends them as having personal qualities which indicate probable success in high-school teaching, and who enter the School of Education as juniors for two years of preparation for that field.

THE GENERAL ALUMNI ASSOCIATION SCHOLARSHIP, $150, established by the Association in 1935, is awarded to a senior student who is son or daughter of a graduate or former student of the University, whose conduct and scholastic record are satisfactory, who has been prominent in extra-curricular activities, and who needs and merits financial aid. The award is made at the close of the junior year by a committee comprising the Chairman of the Committee on Honors and two alumni selected by the President of the General Alumni Association.

THE WILLIAM EMERY PARKER SCHOLARSHIP, the income from a one-thousand dollar bond donated by Hosea B. Buck, of the Class of 1893, in memory of William Emery Parker, of the Class of 1912, is awarded annually to that male student of the sophomore or junior class who, in addition to being above the average rank scholastically, shows most clearly those qualities of manliness, honesty, and constructive effort which characterized the college career of the alumnus in whose memory the scholarship is given.

THE CHARLES H. PAYSON SCHOLARSHIPS, $100 each, were established in 1935 through a gift of $20,000 made by Mrs. Charles H. Payson, of Portland, in memory of her late husband. These are awarded to students in the University whose homes are in Maine and whose high character, qualities of leadership, creditable academic record, and financial need make them worthy of scholarship aid, or to entering students of outstanding merit who without financial assistance could not attend the University.

THE BERTHA JOY THOMPSON SCHOLARSHIPS, $100 each, established in 1935 through a bequest of $15,000 by the late Mrs. Bertha Joy Thompson, of Ellsworth, are awarded to students whose qualities of character, scholarship, initiative, and need make them worthy of financial assistance.

THE PHILIP R. HATHORNE SCHOLARSHIP was established in 1936 through a bequest of $5000 by the late David Ernest Hathorne, of Woolwich, Maine, and an additional gift of $2000 by Mrs. Carrie E. Hathorne, as a memorial to their son, Philip R. Hathorne, of the Class of 1923. The income is to be used to help needy students in the Civil Engineering curriculum, preference to be given to natives of Maine.

THE WOMEN'S STUDENT GOVERNMENT ASSOCIATION SCHOLARSHIP, $50, is awarded annually by the Women's Student Government Association to a deserving woman student who is in need of financial assistance and whose conduct and scholarship record are satisfactory. Applications must be submitted to the president of the Student Council by April 1. Award is made by the Committee on Honors on recommendation of the Dean of Women and the Student Council.

THE NEW YORK ALUMNI ASSOCIATION SCHOLARSHIPS, two, of $50 each, are annually offered by the New York Alumni Association for the encouragement of proficiency in written and oral expression.

SCHOLARSHIP No. 1, established in 1905, is offered for excellence in debating by the faculty Committee on Honors, on recommendation of the Department of Public Speaking. In case the effort in debating does not justify the award in any year or years, the amount shall be accumulative.

SCHOLARSHIP No. 2 is offered annually to an upperclassman in the College of Technology to encourage advancement and proficiency in English as equipment for later professional and civil life. The award, made by a committee of judges selected by the College of Technology and the Department of English, is based chiefly upon a competition in writing held in April, open to juniors and seniors who have satisfactorily completed Freshman English and a further elective course in English Literature, and have taken or are taking English 5 (6). Consideration is also given to the showing and advancement indicated by the student's grades in his courses in English.

THE KIDDER SCHOLARSHIP, $30, endowed in 1890 by Frank E. Kidder, Ph.D., of Denver, Colorado, a graduate of the University in the Class of 1879, is awarded by the Committee on Honors, with the approval of the President, to a student whose rank excels in his junior year.

THE CHICAGO ALUMNI ASSOCIATION SCHOLARSHIP, $30, established in 1903, is awarded annually to a sophomore pursuing a regular curriculum whose deportment is satisfactory and who has attained the highest rank in his class during the freshman year.

THE PITTSBURGH ALUMNI ASSOCIATION SCHOLARSHIP, $30, established in 1905, is awarded annually to a member of the junior class in the College of Technology whose ability and needs justify the award. The selection is made by the President and the Dean and professors of the College of Technology.

THE JOSEPH RIDER FARRINGTON SCHOLARSHIP, the income from a one-thousand dollar bond, a gift of Arthur M., Edward H., Oliver C., Horace P., and Wallace R. Farrington, all graduates of the University of Maine and sons of Mr. and Mrs. Joseph Rider Farrington, is offered annually in honor of their parents, in the following order of preference: (a) Any direct descendant of Joseph Rider and Ellen Holyoke Farrington, or anyone whom three of such descendants may select; (b) Any student bearing the surname of Farrington or Holyoke; (c) The student in the junior class of the College of Agriculture who attains the highest rank in studies and deportment during the year of award and who shall make application for the scholarship.

THE STANLEY PLUMMER SCHOLARSHIP, the income of one thousand dollars, the bequest of Colonel Stanley Plummer, of Dexter, Maine, is awarded annually to a needy and deserving student selected by the Committee on Honors. Students born in Dexter, Maine, shall have preference.

THE PENOBSCOT COUNTY ALUMNI ASSOCIATION SCHOLARSHIPS, two, of $50 each, first given in 1920, are awarded by the President, the executive secretary of the General Alumni Association, and the Committee on Honors to two male students whose homes are in Penobscot County, who are found to be needy and deserving, and whose scholarship and conduct are satisfactory.

THE ELIZABETH ABBOTT BALENTINE SCHOLARSHIP, $75, endowed by the Gamma Chapter of Alpha Omicron Pi, is awarded by the Committee on Honors to a woman member of the sophomore class, on recommendation of the Chapter with the approval of the President, on a basis of scholarship and individual need.

THE CLASS OF 1905 SCHOLARSHIP, the income from a one-thousand dollar bond, donated by members of the Class of 1905, is awarded to a man of the freshman class pursuing a regular curriculum, whose deportment is satisfactory, and who attains the highest rank in the mid-year examinations.

THE CARROL C. JONES SCHOLARSHIP, the net income of a fund of one thousand dollars bequeathed by Minnie E. Jones, of Solon, in memory of her son, Carrol C. Jones, of the Class of 1914, is awarded annually to the student who makes the greatest improvement in his college work during his or her freshman year.

THE OHIO ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1934 by the Ohio Alumni Association, is awarded annually to a student whose character, scholarship, and need justify the award.

THE BOSTON ALUMNI ASSOCIATION SCHOLARSHIPS, two, of $75 each, established in 1935, are awarded annually to any deserving student at the University, with preference given to male upperclassmen from Eastern Massachusetts.

THE LINCOLN COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded annually to an upperclassman whose home is in Lincoln County, on a basis of satisfactory academic record and conduct, qualities of leadership, and financial need.

THE NORTHERN AROOSTOOK ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded annually to an upperclass student on a basis of satisfactory scholastic record and conduct, financial need, and qualities of leadership.

THE PHILADELPHIA ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded annually to some needy and deserving student, with preference given to the vicinity of Philadelphia.

THE RHODE ISLAND ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded to a male student from Rhode Island or that portion of Massachusetts represented by the Association, whose personal and scholastic record is satisfactory and who has been prominent in extra-curricular activities.

THE SOUTHERN CALIFORNIA ALUMNI ASSOCIATION SCHOLARSHIP, $75, established in 1935, is awarded annually to some upperclass student whose scholastic record and conduct are satisfactory, who possesses qualities of leadership, and who is in need of financial aid.

THE SOUTHERN NEW HAMPSHIRE ALUMNI ASSOCIATION SCHOLARSHIP, $75, established in 1935, is awarded to some needy and deserving student, with preference given to the locality represented by the Association.

THE WALDO COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded in the spring semester to a student from Waldo County, preferably a freshman, whose character and scholarship standing are high, and who needs financial assistance to continue in college. The award is made by the Committee on Honors, subject to the approval of the Executive Committee of the Association.

THE WORCESTER COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded annually to a worthy student from Worcester County, preferably an entering freshman.

THE YORK COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded to an upperclassman from York County whose scholastic record and conduct are satisfactory, who possesses qualities of leadership, and who needs and merits financial aid.

THE WESTERN MASSACHUSETTS ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded to a needy and deserving student from Western Massachusetts.

THE CONNECTICUT ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded annually to a needy and deserving student, with preference given to students from Connecticut.

THE KNOX COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, $75, established in 1936, is awarded annually to a student from Knox County whose record and conduct have been satisfactory and who needs and merits help.

THE SOMERSET COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1936, is awarded annually to a needy and deserving senior or junior student from Somerset County.

THE JOHN M. OAK SCHOLARSHIP, the income of a fund of $1500, established in 1935 by the estate of Mr. Oak, a graduate of the Class of 1873 and a Trustee of the University from 1908 to 1915, for the advancement of the art of public speaking in the University, is awarded annually to that upperclass student who shall have delivered the best speech of the persuasive type in a contest held for that purpose.

THE CLASS OF 1911 SCHOLARSHIP, the income of a fund of $1000 donated to the University of Maine Foundation in 1936, is awarded annually to an upperclass student of good character and satisfactory conduct and rank, who possesses qualities of leadership and who needs and merits financial aid.

Special consideration is given in the award to sons and daughters of members of the Class of 1911.

THE AGRICULTURAL CLUB SCHOLARSHIP, $50, is awarded annually to that male member of the junior class who, in addition to having been active in the Agricultural Club, has maintained a creditable academic record and needs and merits financial aid. Award is made by a committee comprising the Dean of the College of Agriculture as chairman, the Director of Short Courses in the College of Agriculture, and the Accountant of the University.

THE MAINE FARM BUREAU FUND SCHOLARSHIP, $75, is awarded annually to a junior or senior student, resident of Maine, in the College of Agriculture, on a basis of character, scholarship, financial need, and qualities of leadership. The Dean of the College of Agriculture, the Secretary of the Farm Bureau Federation, and the Accountant of the University constitute the committee on award.

THE CLASS OF 1909 FUND.—The income of a fund of $1000 presented to the University of Maine by the members of the Class of 1909 at their twenty-fifth reunion is to be used for such purposes as the directors of the Foundation may determine.

THE CHI OMEGA SOCIOLOGY PRIZE, $25, is offered annually by the Chi Omega Sorority, in accordance with its national policy, to the woman student in the sophomore or junior class who secures the highest grade in the beginners' course in sociology. Her general deportment and interest in the study of sociology may also be considered in determining the award.

THE PRIZE OF THE CLASS OF 1873, the income of one thousand dollars, the gift of Russell W. Eaton, of Brunswick, a member of the Class of 1873, is awarded annually to that member of the sophomore class who is able to show the greatest improvement in mechanical drawing during the first two years of his college course. It is expected that candidates for this prize shall have had no training in mechanical drawing previous to entering the University.

THE ALPHA OMICRON PI ALUMNAE PRIZE, $10, given by the Bangor Alumnae Chapter of Alpha Omicron Pi, is awarded annually to the woman student showing the greatest improvement in her work during her freshman year. The record at the Registrar's office, showing the comparison of grades of the fall semester with those of the spring semester, shall furnish the basis of award.

THE SIGMA MU SIGMA AWARD, $25, is given annually by the honorary society Sigma Mu Sigma to a member of the current sophomore or junior class who shall have completed at least a semester and a half of the introductory course in General Psychology, on a basis of proficiency, interest, and general promise in the subject. Nominations for the award are made to the president of the society by the instructors in the course about the middle of the spring semester, and it becomes available upon the student's return to the University in the following semester.

THE PALE BLUE KEY AWARD, $50, is given each year by the Pale Blue Key to some member of the freshman class who needs help, has shown promise in track athletics in his freshman year, and has maintained a satisfactory scholarship standing. The award is made by a committee comprising the president of the Pale Blue Key, the coach of track athletics, and a member of the faculty to be chosen by the club, subject to the approval of the President. The winner will be given the award upon his return to the University in his sophomore year. Applications must be made in writing and sent to either the coach of track athletics or the president of the Pale Blue Key before May 1.

THE HENRY L. GRIFFIN PRIZE IN ENGLISH COMPOSITION, $10, in honor of the late Rev. Henry L. Griffin, of Bangor, is awarded by the Department of English for excellence in the freshman course in composition. The chief basis of the award is a competition in writing held during the month of April.

THE FRANKLIN DANFORTH PRIZE, $15, the gift of the Hon. Edward F. Danforth, of Skowhegan, a graduate of the University of the Class of 1877, in memory of his father, Franklin Danforth, is awarded to that member of the senior class in the College of Agriculture who attains the highest standing throughout his curriculum.

THE GREEK CULTURE PRIZE, $15, the gift of the Hon. Edward F. Danforth, of Skowhegan, a graduate of the University in the Class of 1877, is awarded annually to that senior who shall have given evidence of the best appreciation of the spirit of Greek culture. The award is made on recommendation of the Professor of Ancient Civilization.

THE SPANISH CLUB PRIZE, $10, is awarded annually by the Círculo Español for excellence in Elementary Spanish to a freshman student, on the basis of a competitive examination.

THE ROBERT C. HAMLET PRIZE, $25, established in 1935, in accordance with the will of Mr. Hamlet, a graduate of the University in the Class of 1925, is awarded annually to that student in the University who shall have written the best original one-act play during the year of award. The judges are the Dean of the College of Arts and Sciences, the head of the Department of English, and the president of the Maine Masque.

THE CLAUDE DEWING GRATON PRIZE, the income from four shares of stock donated by Mr. Graton, of the Class of 1900, is awarded annually to a regularly enrolled undergraduate student under 25 years of age who shall have written the best essay on some current constitutional question. Entry for competition should be made with the Professor of Government before January 1.

THE MARY ELLEN CHASE PRIZE, $100, given by Dr. Mary Ellen Chase, a graduate of the University in the Class of 1909, is awarded at Commencement to that student in the University who shall have submitted the best piece of original prose dealing with some aspect of the State of Maine. The

award is made by a committee of judges selected by the head of the Department of English.

THE ALPHA ZETA SENIOR AWARD, $15, is given annually by the honorary fraternity Alpha Zeta to a high ranking senior member whose college career has been marked by useful service in campus activities.

THE CLASS OF 1908 COMMENCEMENT CUP, donated by the Class of 1908 alumni, is awarded to that graduate class, the largest percentage of whose members register during Commencement Week.

THE TWENTIETH CENTURY CUP, given by the New York Alumni Association, is awarded annually at Commencement to that graduate class in the Twentieth Century group, the largest percentage of whose members register before six o'clock on Alumni Day.

THE FRATERNITY SCHOLARSHIP CUP, presented by the 1910 Senior Skulls Society, was awarded in turn at each Commencement to that fraternity having the highest standard in scholarship for the preceding calendar year. The cup was to become the permanent property of the fraternity to which it should be awarded the greatest number of times through an eleven-year period. The award was renewed in 1921 for an eleven-year period by the 1921 Skulls, and in 1932 by the 1932 Skulls. The first cup was awarded in 1921 to Phi Eta Kappa and the second in 1932 to Lambda Chi Alpha.

THE PAN-HELLENIC SORORITY CUP, presented by the Pan-Hellenic Council, is awarded in turn at each Commencement to the sorority having the highest scholarship standing, on terms similar to those of the Fraternity Scholarship Cup. The first cup was awarded in 1933 to Delta Zeta.

THE FRESHMAN SCHOLARSHIP CUP is awarded by the University each spring to that secondary school in Maine having three or more of its graduates in full standing in the freshman class, whose freshman representatives as a group shall have attained the highest scholastic standing for the fall semester preceding. The award was made first in 1931, to Fort Kent High School, in 1932 to Boothbay Harbor High School, in 1933 to Deering High School, in 1934 to South Portland High School, in 1935 to Deering High School, and in 1936 to Brewer High School.

THE WASHINGTON ALUMNI ASSOCIATION WATCH is presented annually by the Alumni Association of Washington, D. C., to the male member of the graduating class who, in the opinion of the students and the University administration, has done the most for the University during his curriculum. This award is made as the result of a secret ballot by the students, passed upon by the President and the Administrative Committee.

THE PORTLAND ALUMNAE ASSOCIATION WATCH is presented annually by the Portland Club of University of Maine Women to the woman member of

the graduating class who, in the opinion of the students and the University administration, has done the most for the University during her curriculum. This award is made as the result of a secret ballot by the students, passed upon by the President and the Administrative Committee.

THE AGRICULTURAL CLUB MEMBERSHIP CUP, furnished by the Agricultural Club, is engraved each year with the numerals of that undergraduate class which can show the best record of membership in the club.

THE CHARLES RICE CUP was presented in 1921 by the Kappa Sigma Fraternity in honor of Charles Anthony Rice, of the Class of 1917, who was killed in service, to be held for one year by the team winning the Intramural Track Championship.

THE INTRAMURAL PLAQUES are presented each year by the Intramural Athletic Association to the fraternity making the best showing in each major intramural sport, and a special plaque is given to that fraternity which makes the best performance in all the sports.

DEGREES

The degree of Bachelor of Arts (B.A.), with specification of the major subject, is conferred upon all students who complete a curriculum in the College of Arts and Sciences.

The degree of Bachelor of Science (B.S.) in the curriculum pursued is conferred upon students who complete the work of four years in the Colleges of Agriculture or Technology according to the requirements prescribed by those Colleges and the University.

The degree of Bachelor of Arts in Education (B.A. in Ed.), or Bachelor of Science in Education (B.S. in Ed.) is conferred upon students who complete the prescribed work in the School of Education.

A minimum residence of one year is required for the attainment of any bachelor's degree. This regulation refers to the senior year. No student will be recommended for a degree who, having been reported to the Committee on Student's Use of English of his college, shall have failed to satisfy the requirements of the committee.

The degrees of Master of Arts (M.A.), Master of Science (M.S.), Master of Arts in Education (M.A. in Ed.), and Master of Science in Education (M.S. in Ed.) are granted for one year's graduate work completed with distinction.

Degrees with Distinction and with Honors

Degrees with distinction are conferred at Commencement for the following attainments in rank:

Seniors in the Colleges of Agriculture and Technology having an average grade of 3.50 or above are graduated with highest distinction, 3.25 to 3.49 with high distinction, and 3.00 to 3.24 with distinction.

Seniors in the College of Arts and Sciences and the School of Education having an average grade of 3.75 or above are graduated with highest distinction, 3.50 to 3.74 with high distinction, and 3.25 to 3.49 with distinction.

The average grade is based on the work of the first three and one-half years, which must include three years of resident study at the University of Maine for students in the Colleges of Agriculture, Arts and Sciences, and Technology and two years in the School of Education for students who have transferred from other institutions. Candidates in the Colleges of Agriculture, Arts and Sciences, and Technology must have completed seven-eighths and in the School of Education three-fourths of the required hours at the end of the fall semester of the senior year. Candidates must take their senior year at the University of Maine.

Seniors in the College of Arts and Sciences who complete satisfactorily the Honors program are graduated with Honors, with High Honors, or with Highest Honors.

STUDENT REGULATIONS

It is assumed that all students entering the University are willing to subscribe to the following: *A student is expected to show, both within and without the University, respect for order, morality, and the rights of others, and such sense of personal honor as is demanded of good citizens.*

The quota of regular studies for each student varies from a minimum of fourteen hours to a maximum of seventeen hours in the College of Arts and Sciences, from a minimum of fourteen hours to a maximum of eighteen hours in the School of Education, and from a minimum of seventeen hours to a maximum of twenty-two hours in the College of Technology and the College of Agriculture except that in the Department of Home Economics the limits are fourteen hours and nineteen hours. In the application of this rule, two or three hours of laboratory work count as one hour.

Each student is expected to be present at every college exercise for which he is registered.

Detailed information about the regulations affecting students is contained in a pamphlet which may be obtained at the office of the Registrar.

Use of Automobiles by Freshmen

Freshmen are not allowed to bring automobiles or motorcycles upon the campus except those who use them to commute daily from their homes.

Organization of the University

The University is divided for purposes of administration by the Trustees into two divisions, the academic and the financial. The former is divided into the Colleges of Agriculture, Arts and Sciences, and Technology, the School of Education, and the Maine Agricultural Experiment Station. To the College of Agriculture belongs the Agricultural Extension Service. The policies of the University as a unit are determined by the Board of Trustees, the administrative officers, and the general faculty, but each division regulates those affairs which concern itself alone. In addition to the faculties of the colleges there are the Faculty of Graduate Study and the Faculty of the Summer Session.

College of Agriculture

Curricula in Agricultural Economics and Farm Management, Agricultural Education, Agronomy and Agricultural Engineering, Animal Husbandry, Bacteriology, Biological and Agricultural Chemistry, Botany, Dairy Husbandry, Dairy Technology, Entomology, Forestry, Home Economics, Horticulture, Poultry Husbandry, and Wildlife Conservation.

Two-Year Course in Agriculture.

Short Courses in Agriculture.

Farm and Home Week.

Extension Lecture Courses.

College of Arts and Sciences

Major subjects are pursued as integrated fields of study based upon special interests. These may coincide with departmental lines (e.g., Chemistry, Classics, Economics and Sociology, English, German, History and Government, Mathematics and Astronomy, Philosophy, Physics, Psychology, Public Speaking, Romance Languages, and Zoology), or they may embody special curricula of a cultural or pre-professional character (e.g., business, comparative literature, creative writing, dramatics, journalism, law, library work, medicine, politics, and social work).

School of Education

Professional training is offered for superintendents, supervisors and principals, and teachers of academic subjects in the secondary schools. The degrees of Master of Arts in Education and Master of Science in Education are offered.

College of Technology

Curricula in Chemical Engineering, Chemistry, Civil Engineering, Electrical Engineering, General Engineering, Mechanical Engineering, and Pulp and Paper Technology.

Faculty of Graduate Study

Courses leading to the degrees of Master of Arts, Master of Science, Master of Arts in Education, and Master of Science in Education have been organized in a considerable number of departments. The professional degrees of Chemical Engineer, Civil Engineer, Electrical Engineer, and Mechanical Engineer are granted upon completion of the appropriate curricula.

Maine Agricultural Experiment Station

Offices and principal laboratories at Orono; Highmoor Farm at Monmouth; Aroostook Farm at Presque Isle.

Summer Session

A session of six weeks is maintained for teachers and college students. Work is offered at present in eighteen departments.

College of Agriculture

GENERAL INFORMATION

The College of Agriculture comprises the Departments of Agricultural Economics and Farm Management, Agricultural Education, Agronomy, Animal Industry, Bacteriology and Biochemistry, Botany and Entomology, Forestry, Home Economics, Horticulture, Short Courses, and Extension Service. This college offers to young men and women an opportunity to secure a broad education and thorough training in the sciences and technics relating to the major course of study they may elect to pursue. It aims to prepare them for lives of usefulness as citizens of the State and for effective service in their chosen vocations or professions.

More specific and detailed information concerning the purposes of each major course of study offered by the College will be found in the description of the various curricula.

The four-year curricula in the College of Agriculture require the completion of 147 credit hours, with the exception of those of Forestry and Home Economics, which comprise 153 and 128 hours respectively. In addition each student must accumulate a total of grade points equal to the number of hours required for graduation in the curriculum chosen. These grade points are computed by multiplying each hour of the letter grade by a factor as follows: A by 3, B by 2, C by 1, and D by 0. Upon the completion of the required curriculum, with the necessary number of grade points, the student will be recommended for the degree of Bachelor of Science (B.S.).

On entering either a four-year curriculum in Agriculture or the Two-Year Agricultural Course a student is required to fill out a practical experience blank. Those who have not had experience in general farming are required to work during at least one summer vacation on some farm approved by the faculty of the college. Before receiving their degrees or certificates candidates must satisfy the faculty that they are familiar with the methods of conducting operations incident to general farming. This does not apply to students majoring in Botany, Bacteriology, Biochemistry, Entomology, Forestry, Wildlife Conservation, or Home Economics.

Physical training is required in each semester of the first two years. No credit toward a degree is allowed for this work. Physical training is not required in the two-year agricultural curriculum.

Students in agriculture who contemplate entering experiment station chemical work should elect the courses offered in Biochemistry covering the qualitative and quantitative chemical analysis of feeds, fertilizers, and dairy products. They should also elect a preparatory course in quantitative chemical analysis.

Students desiring to specialize in the botanical or entomological aspects of Forestry may offer freshman and sophomore years in Forestry as equivalent to the first two years' work in Agriculture and register in the curriculum in Botany or Entomology during the junior or senior years.

A star (*) before the time designated for a course indicates that three or sometimes more hours of actual work are required to obtain a credit of one hour; a dagger (†) indicates that two hours of actual work are required to obtain a credit of one hour.

REGULAR CURRICULA AND COURSES OF INSTRUCTION

The courses of instruction are organized as follows:

1. Four-Year Major Agricultural Curricula:
   Agricultural Economics and Farm Management, Agricultural Education, Agronomy and Agricultural Engineering, Animal Husbandry, Bacteriology, Biochemistry, Botany, Dairy Husbandry, Dairy Technology, Entomology, Horticulture, and Poultry Husbandry.
2. Four-Year Forestry Curricula:
   Forestry, Wildlife Conservation
3. Four-Year Home Economics Curricula:
   Vocational Sequences
   1. Home Economics Education
   2. Extension-Home Demonstration or 4-H Club Work
   3. Foods and Nutrition
   4. Textiles and Clothing
   5. Development and Training
   6. Special Sequences: Home Economics Journalism, Household Equipment, Social Service, and others formulated to fit individual cases
4. The Two-Year Course in Agriculture
5. Short Courses in Agriculture
6. Farm and Home Week
7. Extension Lecture Courses

THE FOUR-YEAR AGRICULTURAL CURRICULA

The four-year agricultural curricula are designed for those who wish to engage in the business of farming; for those contemplating the special fields of agricultural economics and farm management, agronomy and agricultural engineering, animal husbandry, bacteriology, biological and agricultural chemistry, botany, dairy husbandry, dairy technology, entomology, horticulture, and poultry husbandry; for those desiring to enter Federal or State agricultural research work; for those planning to prepare themselves for the teaching of agriculture and the allied sciences in secondary schools and colleges; and for those seeking to fit themselves to become agricultural extension agents or specialists in any of the various phases of agriculture. In addition to the specific fields mentioned above there are many other opportunities open to the college trained man in the agricultural and associated industries.

Certain studies are fundamental to all work in agricultural lines, and for this reason as many of these subjects as possible are offered in the first year, during which the student is necessarily given no choice of subjects. Beginning with the sophomore year each student should start specialization in one of the following major curricula: Agricultural Economics and Farm Management, Agricultural Education, Agronomy and Agricultural Engineering, Animal Husbandry, Bacteriology, Biochemistry, Botany, Dairy Husbandry, Dairy Technology, Entomology, Horticulture, or Poultry Husbandry; and at the beginning of the junior year he must establish a definite major course of study to be followed until the requirements for graduation shall have been satisfied.

It should be noted that each major curriculum allows a student a number of elective hours. The elective subjects are selected with the advice of the major instructor. In view of the fact that the economic aspects of the agricultural industry have become so vitally important, it is suggested that the student elect subjects in the field of agricultural economics in addition to those which may be required in his major curriculum; particularly is it suggested that he obtain as much information as he possibly can on the marketing of agricultural products. In the case of those students majoring in Agricultural Economics opportunity is offered in the way of elective hours to obtain training in such of the agricultural production subjects as may be desired to furnish a basic production background.

Honor Course in Agriculture

Any student who has obtained an average grade of at least 3.25 in the courses offered by his major department during the first three years of his

college course may register for honor courses in his major department or in an allied department during his senior year providing his average grade in such allied department is at least 3.25 in all subjects taken in that department. Such courses may be substituted for any elective course, the total number of credit hours not to exceed four. Such honor courses shall be designed especially to promote initiative and organizing ability in the student. The scope of such courses shall constitute a broad survey in the field selected for study and shall in no way be substituted for a thesis. The general plan shall be worked out by the head of the department in which the course is taken, and must be approved by the head of the student's major department.

Curriculum for the Freshman Year for All Students Taking Four-Year Curricula in Agriculture

Fall Semester				*Spring Semester*			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ag	11	Field Crops, 2 †2	3	An	2	General Animal Husbandry, 2 †2	3
Ch	1	General Chemistry, 2 †4	4	Bt	2	General Botany, 2 †4	4
Eh	1	Composition	3	Ch	2	General Chemistry, 2 †4	4
Mt	1	Military, †3	1½	Eh	2	Composition	3
Ph	1	General Poultry Husbandry, 2 †2	3	Ht	2	General Horticulture, 2 †2	3
Zo	1	General Zoology, 2 †4	4	Mt	2	Military, †3	1½
Pt	1	Physical Education, 2	0	Pt	2	Physical Education, 2	0
			18½				18½

Curriculum for Students Specializing in Agricultural Economics and Farm Management

The curriculum in Agricultural Economics and Farm Management is planned to give the student a broad, comprehensive training in the economic principles of the production and marketing of agricultural products. The training in crops and livestock production, provided in this curriculum, is essential for a clear and proper understanding of the application of the principles of agricultural economics. The student may choose from the elective hours a sufficient amount of work in another department to prepare himself for a position in Agricultural Economics and Farm Management dealing with

a particular group of agricultural products. The student upon completing this curriculum of study may engage in some phase of one of the main divisions in the field, such as: agricultural economics, farm management, agricultural marketing including coöperative marketing, agricultural statistics, or agricultural finance. Any one of these divisions offers many opportunities to the graduate.

SOPHOMORE YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 1	Soils, 2 *3	3	*Ag 14	Sweet Corn, Beans, and Peas, 1 †2	
An 3	Care, Feed, Mgt. of Live Stock, 3 †2	4		or	2
Bt 45	General Genetics	3	*Ag 16	Forage and Pasture Crops, 1 †2	
Dh 1	General Dairying, 2 †2	3	Bc 8	Agricultural Chemistry	2
Es 1a	Principles of Economics	3	Fm 48	Agricultural Economics	3
Mt 3	Military, †3	2	Mt 4	Military, †3	2
Pt 3	Physical Education, 2	0	Pt 4	Physical Education, 2	0
				Elective	10
		18			19

JUNIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
*Ag 15	Potato Production, 2 †2	3	Fm 52	Farm Accounting, 1 *6	
By 3	Bacteriology	2	Fm 62	Agricultural Business Accounting, 2 *3	3
Eh 5	Technical Composition	2			
Fm 73	Adv. Agr. Economics	3	Fm 76	Agr. Marketing	3
Fm 75	Agricultural Statistics, 1 *3	2		Elective	12
Fm 79	Coöperative Marketing	2			
	Elective	8 or 5			
		19			18

SENIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Fm 77	Agricultural Finance.....	2	Fm 74	Farm Management,	3 *3 4
Fm 81	Current Economic Problems	1	Fm 82	Current Economic Problems	1
Fm 83	Thesis	3	Fm 84	Thesis	3
Fm 87	Agricultural Prices	2	†	Marketing	2
	Marketing	2		Elective.....8 or 10	
	Elective	8			
		18			18

* Only one course required (Ag 14, 15 or 16).
† Not required if taken in fall.

Curriculum for Students Specializing in Agricultural Education

In recent years there has grown a need in this state and a majority of the other states for young men especially trained to conduct agricultural courses in secondary schools. The Federal Government, recognizing the importance of teaching agriculture in secondary schools, has made it possible, through the Smith-Hughes Act, for school boards to obtain Federal aid in this work. In order to receive this Federal aid the teacher employed must have been trained at an agricultural college following a specific agricultural education curriculum or teacher-training course, as it is called. There are two such teacher-training curricula in the College of Agriculture. When the requirements of either one have been met, the graduate may become a candidate for appointment under the provisions of the Smith-Hughes Act as a teacher of agricultural subjects in a secondary school. It is a wise policy in any event for a student contemplating a career of teaching to follow the major agricultural teacher-training curriculum given below. Those students wishing to specialize in other major curricula, but at the same time elect enough of the teacher-training curriculum to render themselves eligible to Smith-Hughes teaching positions, must take all of the courses in Agricultural Education (with the exception of Course 4), and in addition should elect Agronomy 34, Farm Shop.

Students who minor in Agricultural Education are urged to elect as many as possible of such of the following subjects as may not have been required of them in their major curricula. A start should be made as early

as the sophomore year. Secondary-school teachers of agriculture have to teach these subjects, and a teacher who has not studied them works under a handicap. These subjects are: Agronomy 6, Soils and Fertilizers; Agronomy 15, Potato Production; Agronomy 16, Forage and Pasture Crops; Agronomy 30, Agricultural Engineering; Agronomy 35, Drainage and Land Reclamation; Agronomy 36, Farm Machinery and Power; Animal Husbandry 3, Care, Feed, and Management of Live Stock; Dairy Husbandry 1, General Dairying; Farm Management 74; and Forestry 20.

Students who elect either of the teacher-training courses must have had at least two years of practical farm work since their fourteenth birthdays. One of these years must include year-round experience. Experience on the home farm while attending school satisfies the requirement. Those who do not meet this requirement of practical experience will be allowed to take the course only with the understanding that they will be expected to get this experience before they will be allowed to teach.

SOPHOMORE YEAR

Fall Semester

No.		Subject	Cr. Hours
Ag	1	Soils, 2 *3	3
An	3	Care, Feed, Mgt. of Live Stock, 3 †2	4
Bc	1	Organic Chemistry, 2 †2	3
En	21	Gen'l Entomology, 2 †4	4
Py	1	General Psychology, 2 †2	3
Mt	3	Military, †3	2
Pt	3	Physical Education, 2	0
			19

Spring Semester

No.		Subject	Cr. Hours
Bc	2	Biochemistry, 3 †4	5
Bc	8	Agricultural Chemistry	2
Fm	48	Agricultural Economics	3
Fy	20	Woodlot Forestry	2
Py	2	General Psychology, 2 †2	3
Mt	4	Military, †3	2
Pt	4	Physical Education, 2	0
		Elective	2
			19

JUNIOR YEAR

Fall Semester				*Spring Semester*			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ae	3	Special Methods in Teaching Agriculture	2	Ae	6	Special Methods in Teaching Agriculture	2
An	5	Anatomy of Domestic Animals, 2 †2	3	Ag	16	Forage and Pasture Crops, 1 †2	2
By	1	Bacteriology, †6	3	Ag	30	Agricultural Engineering, 2 *3	3
By	3	Bacteriology	2	Ag	34	Farm Shop, †4	2
Dh	1	General Dairying, 2 †2	3	Ag	36	Farm Machinery and Power, 2 *3	3
Eh	5	Technical Composition	2	An	6	Physiology of Domestic Animals	3
		Elective	4	Fm	76	Agricultural Marketing	3
						Elective	2
			19				20

SENIOR YEAR

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ae	5	Supervised Farm Practice	2	Ae	4	Practice Teaching	4
Ae	7	Lesson Planning	2	Ae	8	Teaching Farm Mechanics	2
Ag	15	Potato Production, 2 †2	3	Ag	6	Soils and Fertilizers	2
Ag	35	Drainage and Land Reclamation, 2 *3	3	Fm	52	Farm Accounting, 1 *6	3
An	7	Animal Hygiene	2	Fm	74	Farm Management, 3 *3	4
Fm	73	Advanced Agr. Economics	3				
		Elective	3				
			18				15

Curriculum for Students Specializing in Agronomy and Agricultural Engineering

Agronomy in a large sense is a study of the principles underlying modern methods of crop production, plant breeding, adaptation and care of the soil, the source and use of fertilizer materials, the management of the farm, and

various phases of agricultural engineering. This curriculum provides a well-rounded training in these subjects, and presents opportunity aiso for elective studies in stock raising, fruit and vegetable growing, economics, botany, zoology, bacteriology, and kindred subjects.

The graduate having followed this curriculum will find numerous fields of activity open to him; the more common of which are farming for himself, farm management positions, agricultural extension work, experiment-station investigational work, agricultural teaching, and opportunities in the various fertilizer and agricultural machinery industries.

SOPHOMORE YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 1	Soils, 2 *3	3	Ag 16	Forage and Pasture Crops, 1 †2	2
Ag 5	Soil Formation, Erosion and Conservation	3	Bc 2	Biochemistry, 3 †4	5
An 3	Care, Feed, Mgt. of Live Stock, 3 †2	4	Bc 8	Agricultural Chemistry	2
Bc 1	Organic Chemistry, 2 †2	3	Fm 48	Agricultural Economics	3
En 21	Gen'l Entomology, 2 †4	4	Mt 4	Military, †3	2
Mt 3	Military, †3	2	Pt 4	Physical Education, 2	0
Pt 3	Physical Education, 2	0		Elective	5
		19			19

JUNIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 15	Potato Production, 2 †2	3	Ag 6	Soils and Fertilizers	2
Ag 81	Seminar	1	Ag 30	Agricultural Engineering, 2 *3	3
Bt 53	Plant Physiology, 2 †4	4	Ag 82	Seminar	1
By 1	Bacteriology, †6	3	Bt 30	Plant Ecology, 1 †2	2
By 3	Bacteriology	2	Bt 56	Plant Pathology, 2 †4	4
Eh 5	Technical Composition	2	Fm 76	Agr. Marketing	3
	Elective	3		Elective	3
		18			18

SENIOR YEAR

Fall Semester				*Spring Semester*			
No.	Subject		Cr. Hours	No.	Subject		Cr. Hours
Ag 81	Seminar		1	Ag 82	Seminar		1
Bt 45	General Genetics		3	Fm 74	Farm Management, 3	*3.	4
By 55	Bacteriology (Soil), 1	†4	3		Elective		13
	Elective		11				
			18				18

Curricula for Students Specializing in Animal Husbandry, Dairy Husbandry, Dairy Technology, or Poultry Husbandry

SOPHOMORE YEAR

No.	Subject		Cr. Hours	No.	Subject		Cr. Hours
Ag 1	Soils, 2	*3	3	Ag 16	Forage and Pasture Crops, 1	†2	2
An 3	Care, Feed, Mgt. of Live Stock, 3	†2	4	Bc 2	Biochemistry, 3	†4	5
Bc 1	Organic Chemistry, 2	†2	3	Fm 48	Agricultural Economics		3
Dh 1	General Dairying, 2	†2	3	Mt 4	Military,	†3	2
En 21	Gen'l Entomology, 2	†4	4	Pt 4	Physical Education, 2		0
Mt 3	Military,	†3	2		Elective		7
Pt 3	Physical Education, 2		0				
			19				19

ANIMAL HUSBANDRY

The curriculum in Animal Husbandry is so arranged that the student receives a comprehensive training in animal breeding, feeding, and management, consideration being given to the four chief groups of farm animals, cattle, horses, swine, and sheep. Because of the importance of crops to the maintenance of farm animals, this curriculum embraces subjects relating to crop production and farm management. The student on completion of this curriculum may engage in the business of animal breeding, furthering the promotion of pure bred livestock utilization; he may enter special phases of animal industry, such as Federal extension, control and investigational lines;

he may become the superintendent of an animal breeding establishment; he may engage in college or university teaching of animal husbandry; or he may enter into any one of the great allied industries of animal industry, such as the meat packing business or the commercial feed business. The training he has received has furnished him with the necessary fundamental equipment to enable him to succeed.

JUNIOR YEAR

Fall Semester

No.	Subject	Cr. Hours
An 5	Anatomy of Domestic Animals, 2 †2	3
Bc 9	Animal Biochemistry	2
Bt 45	General Genetics	3
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Eh 5	Technical Composition	2
	Elective	3
		18

Spring Semester

No.	Subject	Cr. Hours
An 6	Physiology of Domestic Animals	3
An 42	Adv. Live Stock Judging and Mgt., †2	1
An 44	Adv. Live Stock Feeding	2
By 52	Bacteriology, 1 †4	3
	Elective	9
		18

SENIOR YEAR

No.	Subject	Cr. Hours
Ag 35	Drainage and Land Reclamation, 2 *3	3
An 7	Animal Hygiene	2
An 55	Animal Nutrition	2
An 63	Seminar	1
	Elective	10
		18

No.	Subject	Cr. Hours
Ag 6	Soils and Fertilizers	2
Ag 36	Farm Machinery and Power, 2 *3	3
An 8	Animal Pathology	2
An 60	Adv. Animal Breeding, 1 †2	2
An 64	Seminar	1
Fm 52	Farm Accounting, 1 *6	3
	Elective	5
		18

DAIRY HUSBANDRY AND DAIRY TECHNOLOGY

These curricula are more specialized than that for Animal Husbandry in that dairy production and dairy manufactures are dealt with more specifically. The student pursuing one or the other of these curricula prepares himself to follow the business of dairy farming from the standpoint of efficient dairy-cattle breeding and efficient milk production, or some other phase of the dairy industry such as the market-milk business, butter manufacturing, cheese manufacturing, condensed and powdered milk industry, and ice-cream manufacturing, each of which is constantly adding to its personnel young men who have received training similar to that offered in the Dairy Husbandry and Dairy Technology curricula. In addition to the foregoing there are many opportunities to follow special lines of endeavor, Federal, state, and commercial, all of which require specialized training in dairy production and dairy manufactures.

DAIRY HUSBANDRY

JUNIOR YEAR

Fall Semester

No.	Subject	Cr. Hours
An 5	Anatomy of Domestic Animals, 2 †2	3
Bc 9	Animal Biochemistry	2
Bt 45	General Genetics	3
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Dh 5	Market Milk, 3 †2	4
Eh 5	Technical Composition	2
		19

Spring Semester

No.	Subject	Cr. Hours
An 6	Physiology of Domestic Animals	3
An 42	Adv. Live Stock Judging and Mgt., †2	1
An 44	Adv. Live Stock Feeding	2
By 52	Bacteriology, 1 †4	3
Dh 2	Butter Making, 1 †4	3
	Elective	5
		17

SENIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 35	Drainage and Land Reclamation, 2 *3	3	Ag 6	Soils and Fertilizers	2
An 7	Animal Hygiene	2	Ag 36	Farm Machinery and Power, 2 *3	3
An 55	Animal Nutrition	2	An 8	Animal Pathology	2
An 63	Seminar	1	An 60	Adv. Animal Breeding, 1 †2	2
Dh 3	Cheese Making, 2 *6	4	An 64	Seminar	1
	Elective	6	By 54	Bacteriology (Dairy), 1 †4	3
			Fm 52	Farm Accounting, 1 *6	3
				Elective	2
		18			18

DAIRY TECHNOLOGY

JUNIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
By 1	Bacteriology, †6	3	By 54	Bacteriology (Dairy), 1 †4	3
By 3	Bacteriology	2	Dh 2	Butter Making, 1 †4	3
Dh 5	Market Milk, 3 †2	4	Dh 4	Condensed Milk, 2 *3	3
Eh 5	Technical Composition	2	Dh 6	Dairy Products Judging, †2	1
	Elective	7	Fm 76	Agricultural Marketing	3
				Elective	5
		18			18

SENIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Dh 3	Cheese Making, 2 *6	4	Dh 58	Ice Cream Making, 2 †4	4
Dh 51	Dairy Technology	2	Dh 62	Dairy Tech. Seminar	1
Dh 55	Dairy Refrigeration	2	Dh 64	Adv. Dairy Products Control, †4	2
Dh 61	Dairy Tech. Seminar	1	Dh 66	Dairy Machinery, †4	2
Dh 63	Adv. Dairy Products Testing, †2	1	Fm 62	Agricultural Business Accounting, 2 *3	3
Fm 85	Agr. Marketing (Dairy & Poultry Products)	2		Elective	6
	Elective	6			
		18			18

POULTRY HUSBANDRY

The poultry industry of the United States has come to be recognized as one of the highest-ranking agricultural industries and while it relies for its vastness on the widespread farm flock, nevertheless it offers abundant opportunities to men possessing special training in poultry breeding, feeding, and management. Commercial poultry raising calls for a specialized training in poultry husbandry and is becoming a business of large proportions. Many openings also occur in poultry extension work, either Federal or state, and also in the poultry supplies business. The curriculum in Poultry Husbandry furnishes the necessary training for the student contemplating entrance into the fast-growing poultry industry.

JUNIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
An 5	Anatomy of Domestic Animals, 2 †2	3	An 6	Physiology of Domestic Animals	3
Bc 9	Animal Biochemistry	2	By 52	Bacteriology, 1 †4	3
Bt 45	General Genetics	3	Fm 76	Agricultural Marketing	3
By 1	Bacteriology, †6	3	Ph 2	Poultry Breeding	2
By 3	Bacteriology	2		Elective	7
Eh 5	Technical Composition	2			
Ph 3	Exhibition and Production Judging, 1 †2	2			
	Elective	1			
		18			18

SENIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 35	Drainage and Land Reclamation, 2 *3	3	Ag 6	Soils and Fertilizers	2
Fm 85	Agricultural Marketing	2	Fm 52	Farm Accounting, 1 *6	3
Ph 5	Poultry Feeding	2	Ph 4	Incubation and Brooding, 2 †2	3
Ph 7	Poultry Seminar	2	Ph 6	Poultry Farm Management, 1 †2	2
	Elective	9	Ph 8	Poultry Diseases	2
				Elective	6
		18			18

Curriculum for Students Specializing in Bacteriology

This curriculum is designed primarily for those students who desire to fit themselves for laboratory technicians or for research in the field of general or applied bacteriology. Stress is placed not only upon the agricultural phases of bacteriology, but also upon the sanitary and technical aspects. Students interested in bacteriology as applied to agriculture will take the regular freshman curriculum in agriculture; others will be guided by the freshman curriculum as outlined below. Two years of German or its equivalent are required.

FRESHMAN YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ch 1	General Chemistry, 2 †4	4	Ch 2	General Chemistry, 2 †4	4
Eh 1	Composition	3	Bt 2	General Botany, 2 †4	4
Gm 19	German for Chemists	3	Eh 2	Composition	3
Mt 1	Military, †3	1½	Gm 20	German for Chemists	3
Zo 1	General Zoology, 2 †4	4	Mt 2	Military, †3	1½
Pt 1	Physical Education, 2	0	Pt 2	Physical Education, 2	0
	Elective	3		Elective	3
		18½			18½

SOPHOMORE YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 1	Soils, 2 *3	3	Bc 2	Biochemistry, 3 †4	5
Bc 1	Organic Chemistry, 2 †2	3	Ch 40	Quantitative Analysis, 1 †2, *6	4
Ch 31	Qualitative Analysis, 2 †2, *6	5	Gm 22	German for Chemists	3
Gm 21	German for Chemists	3	Mt 4	Military, †3	2
Mt 3	Military, †3	2	Pt 4	Physical Education, 2	0
Pt 3	Physical Education, 2	0		Elective	6
	Elective	4			
		20			20

JUNIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bc 51	Biochemistry	3	Bc 64	Biochemical Laboratory Methods, †6	3
Bt 53	Plant Physiology, 2 †4	4	By 52	Bacteriology, 1 †4	3
By 1	Bacteriology, †6	3	By 54	Bacteriology (Dairy),	
By 3	Bacteriology	2	Ch 22	Introductory Theoretical Chemistry	2
Ch 21	Introductory Theoretical Chemistry	2		1 †4	3
Dh 1	General Dairying, 2 †2..3 or Elective 3	3		Elective	6
	Elective	2			
		19			17

SENIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bc 57	Biological Colloids	3	By 62	Seminar	1
By 55	Bacteriology (Soil), 1 †4	3	By 102	Problems in Bacteriology, †4 to †8	2 to 4
By 61	Seminar	1		Elective	12 to 14
By 101	Problems in Bacteriology, †4 to †8	2 to 4			
	Elective	6 to 8			
		17			17

Curriculum for Students Specializing in Biochemistry

The curriculum in Biochemistry is designed to give the student an opportunity to specialize in chemistry of plant and animal life. With proper choice of electives under the direction of the major instructor students may also pursue special work in agricultural chemistry, particularly in chemistry of the soil and fertilizers.

SOPHOMORE YEAR

Fall Semester

No.	Subject	Cr. Hours
Ag 1	Soils, 2 *3	3
Bc 1	Organic Chemistry, 2 †2	3
Ch 31	Qualitative Analysis, 2 †2, *6	5
Gm 19	German for Chemists	3
Mt 3	Military, †3	2
Pt 3	Physical Education, 2	0
	Elective	2
		18

Spring Semester

No.	Subject	Cr. Hours
Bc 2	Biochemistry, 3 †4	5
Ch 40	Quantitative Analysis, 1 †2, *6	4
Gm 20	German for Chemists	3
Mt 4	Military, †3	2
Pt 4	Physical Education, 2	0
	Elective	5
		19

JUNIOR YEAR

No.	Subject	Cr. Hours
Bc 9	Animal Biochemistry	2
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Ch 21	Introductory Theoretical Chemistry	2
Gm 21	German for Chemists	3
	Elective	7
		19

No.	Subject	Cr. Hours
Bc 64	Biochemical Laboratory Methods, †6	3
By 52	Bacteriology, 1 †4	3
Ch 22	Introductory Theoretical Chemistry	2
Gm 22	German for Chemists	3
	Elective	7
		18

SENIOR YEAR

Fall Semester				*Spring Semester*			
No.	Subject	Cr. Hours		No.	Subject	Cr. Hours	
Bc 57	Biological Colloids	3		Bc 102	Research, †8		4
Bc 101	Research, †8	4			Elective		14
	Elective	11					
		18					18

Curricula for Students Specializing in Botany and Entomology

These curricula are designed for those preparing themselves to engage in research or to enter the field of teaching in either the pure or applied science of botany or entomology. Students interested in botany or entomology as applied to agriculture or forestry may transfer from the Agriculture or Forestry curriculum at the beginning of the sophomore or junior years. Others will be guided by the freshman curriculum outlined below. A reading knowledge of French or German is required.

Botany or Entomology

FRESHMAN YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ch 1	General Chemistry, 2 †4	4	Bt 2	General Botany, 2 †4	4
Eh 1	Composition	3	Ch 2	General Chemistry, 2 †4	4
Md 1	Fund. of Drafting, †4	2	Eh 2	Composition	3
Ms 1	Trigonometry	2	Md 2	Elementary Machine Drafting, †4	2
Ms 3	Algebra	2			
Mt 1	Military, †3	1½	Mt 2	Military, †3	1½
Zo 3	Animal Biology, 2 †4	4	Zo 4	Animal Biology, 2 †4	4
Pt 1	Physical Education, 2	0	Pt 2	Physical Education, 2	0
		18½			18½

SOPHOMORE YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bt 33	Forest Botany, 2 †4	4	Bt 36	Taxonomy, 2 †4	4
En 21	Gen'l Entomology, 2 †4	4	En 24	Taxonomy of Insects I, 2 †4	4
Mt 3	Military, †3	2	Mt 4	Military, †3	2
Gm 19	German for Chemists	3	Gm 20	German for Chemists	3
Pt 3	Physical Education, 2	0	Pt 4	Physical Education, 2	0
	Elective	5		Elective	5
		18			18

Botany

JUNIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bc 1	Organic Chemistry, 2 †2	3	Bc 2	Biochemistry, 3 †4	5
Bt 35	Plant Anatomy, 2 †4	4	Bt 56	Plant Pathology, 2 †4	4
By 1	Bacteriology, †6	3	Eh 10	Modern Literature	2
By 3	Bacteriology	2	Gm 22	German for Chemists	3
Eh 5	Technical Composition	2	Pb 2	Public Speaking	2
Gm 21	German for Chemists	3		Elective	3
	Elective	2			
		19			19

SENIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bt 45	General Genetics	3	Bt 30	Plant Ecology, 1 †2	2
Bt 53	Plant Physiology, 2 †4	4	Bt 46	Genetics Laboratory, †4	2
Bt 57	Taxonomy, 2 †4	4	Fm 48	Agricultural Economics	3
Es 1a	Prin. of Economics	3		Elective	11
	Elective	4			
		18			18

Entomology

JUNIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bc 1	Organic Chemistry, 2 †2	3	Bc 2	Biochemistry, 3 †4	5
By 1	Bacteriology, †6	3	Eh 10	Modern Literature	2
By 3	Bacteriology	2	En 52	Taxonomy of Insects II, 1 †4	3
Eh 5	Technical Composition	2	Gm 22	German for Chemists	3
En 51	Morphology of Insects, 2 †4	4	Pb 2	Public Speaking	2
Gm 21	German for Chemists	3		Elective	4
	Elective	2			
		19			19

SENIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bt 57	Taxonomy of Vascular Plants, 2 †4	4	Bt 56	Plant Pathology, 2 †4	4
En 47	Problem in Entomology	3	En 46	Advanced Forest Entomology	2
En 49	Economic Entomology, 2 †2	3	En 48	Problem in Entomology	3
Es 1a	Prin. of Economics	3	Fm 48	Agricultural Economics	3
	Elective	5		Elective	6
		18			18

Curriculum for Students Specializing in Horticulture

The curriculum in Horticulture is intended, not only to provide a good preparation for engaging directly in fruit growing, vegetable gardening, ornamental horticulture, or other horticultural industry, but also to make possible to the graduate a reasonably easy entrance into several professional occupations which may require the additional preparation of a period of intensive graduate study. Prominent among the positions occupied by graduates in horticulture are those of investigators in experiment stations, teachers in colleges and secondary schools, extension agents, and state and Federal employees in the investigational, inspection, and regulatory services.

Although but a single curriculum in horticulture appears in the catalog, tending to place emphasis on a general training in horticulture, the student who wishes to specialize in one division of horticulture may do so by combining a careful selection of elective courses with the completion of one of the following groups as a requirement: (1) fruit culture—Horticulture 1, 9, 10, 53, 56, and Farm Management 74; (2) vegetable gardening—Horticulture 10, 20, 21, 25, and Farm Management 74; (3) floriculture and ornamental horticulture—Agricultural Drafting, 9; Horticulture 3, 6, 7, 8, and 15. Problems in Horticulture, Courses 11 and 12, afford still further opportunity for progressive specialization.

The department will attempt so to administer the prescribed part of the curriculum and to advise students in the selection of elective courses that their individual capabilities may be developed and their interests encouraged to the fullest degree consistent with the belief that a liberal education should accompany and even take precedence over specialization in horticulture.

Conflicts in scheduling may largely be avoided by electing horticulture courses in this sequence: sophomore year, Courses 1, 4, 8, and 9; junior year, Courses 3, 4, 6, 7, 20, 25, 53, and 54; senior year, Courses 10, 11, 12, 15, 21, 25, 53, 54, and 56.

SOPHOMORE YEAR

Fall Semester

No.		Subject	Cr. Hours
Ag	1	Soils, 2 *3	3
Bc	1	Organic Chemistry, 2 †2	3
En	21	Gen'l Entomology, 2 †4	4
Mt	3	Military, †3	2
Pt	3	Physical Education, 2	0
		Elective	7
			19

Spring Semester

No.		Subject	Cr. Hours
Bc	2	Biochemistry, 3 †4	5
Ag	6	Soils and Fertilizers	2
Fm	48	Agricultural Economics	3
Mt	4	Military, †3	2
Pt	4	Physical Education, 2	0
		Elective	7
			19

JUNIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 35	Land Drainage and Reclamation, 2 *3	3	Bt 56	Plant Pathology, 2 †4	4
Bt 53	Plant Physiology, 2†4	4		Horticulture	6
By 3	Bacteriology	2		Elective	9
Eh 5	Technical Composition	2			
	Horticulture	5			
	Elective	3			
		19			19

Ht 14 Summer Practice (elective) ..... *4 credit hours*

SENIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bt 45	General Genetics	3	Ht 52	Seminar	1
Ht 51	Seminar	1		Horticulture	5
	Horticulture	6		Elective	11
	Elective	7			
		17			17

CURRICULA IN FORESTRY

Two curricula are offered in the Forestry Department, both sequences leading to the degree of Bachelor of Science. Courses offered during the first year in either of these sequences are the same.

Curriculum for the Freshman Year for All Students Taking Four-Year Curricula in the Department of Forestry

Fall Semester				*Spring Semester*			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ch	1	General Chemistry, 2 †4	4	Bt	2	General Botany, 2 †4	4
Eh	1	Composition	3	Ch	2	General Chemistry, 2 †4	4
Fy	1	Elements of Forestry	2	Eh	2	Composition	3
Md	1	Fund. of Drafting, †4	2	Fy	2	Elements of Forestry	2
Ms	9	Trigonometry and its Applications	2	Md	2a	Drafting, †4	2
Mt	1	Military, †3	1½	Ms	10	Trigonometry and Its Applications	2
Zo	1	General Zoology, 2 †4	4	Mt	2	Military, †3	1½
Fy	47	Orientation, 1	0	Fy	48	Orientation, 1	0
Pt	1	Physical Education, 2	0	Pt	2	Physical Education, 2	0
			18½				18½

CURRICULUM IN FORESTRY

A four-year undergraduate curriculum in Forestry is offered. In addition four courses from this undergraduate curriculum are open to graduate credit to students majoring in other curricula. A limited number of graduate students will be accepted for graduate work upon completion of the four-year curriculum or its equivalent at another university. The Forestry curriculum follows. It is arranged to meet the requirements of the profession of forestry for forestry instruction in the United States. Completion of the curriculum leads to the degree of Bachelor of Science. It will enable the graduate to qualify for technical and administrative positions in the profession, and will admit to advanced standing in postgraduate schools of forestry if further and more advanced work is desired. It will also render a student eligible for the Civil Service examinations for the position of Junior Forester in the United States Forest Service, and other Federal bureaus employing foresters. Owing to the wide field covered by the curriculum it offers an excellent basis for a broad and liberal education.

The first two years are devoted very largely to fundamental and pre-technical subjects which are basic for a proper understanding of the more highly specialized work in technical subjects during the last two years. Instruction in the department consists of lectures, recitations, laboratory and field work, the latter consuming a considerable portion of the scheduled time.

A camp course of six weeks' practical experience is required of all men in the summer between the sophomore and junior years. This work is offered at a camp operated by the Department, where students are able to observe large forest areas under permanent management and large private manufacturing plants specializing in the utilization of various kinds of forest products.

A second camp course of eight weeks' practical experience is required of all seniors at camps owned and operated by the Forestry Department and located on Indian Township, near Princeton, Maine.

SOPHOMORE YEAR

Fall Semester

No.	Subject	Cr. Hours
Ag 5	Soil Formation and Conservation	3
Bt 33	Forest Botany, 2 †4	4
Ce 1	Plane Surveying	3
Ce 3	Field Work and Plotting, *9	3
Es 1b	Principles of Economics	2
Fy 3	Logging	2
Mt 3	Military, †3	2
Pt 3	Physical Education, 2	0
		19

Spring Semester

No.	Subject	Cr. Hours
Bt 34	Forest Botany, 2 †4	4
Eh 10	Modern Literature	2
En 22	Forest Entomology, 2 †4	4
Es 2b	Principles of Economics	2
Fy 4	Administration and Protection	4
Mt 4	Military, †3	2
Pt 4	Physical Education, 2	0
		18

SUMMER CAMP

No.	Subject	Cr. Hours
Ce 7s	Highways and Railroads	2
Fy 35s	Silviculture	2
Fy 37s	Forest Mensuration	1
Fy 39s	Forest Products	1
		6

JUNIOR YEAR

Fall Semester				*Spring Semester*			
No.	Subject	Cr. Hours		No.	Subject	Cr. Hours	
Ag 3	Soils (Forest), 2 *3	3		Bt 32	Plant Physiology, 2 †4	4	
Bt 35	Plant Anatomy, 2 †4	4		Ce 6	Land Surveying, 2; *9, last 6 weeks	3	
Eh 5	Technical Composition	2		Fy 6	Forest Mensuration, 2 *3	3	
Fm 65	Forest Accounting, 2 *3	3		Fy 8	Silvics	2	
Fy 5	Forest Mensuration, 2 *3	3		Fy 10	Nursery Practice, last 9 weeks, *6	1	
Ht 5	Recreation Landscaping, 2 *3	3		Fy 12	Seeding and Planting	2	
					Elective	4	
		18				19	

SENIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
	First 9 weeks		Bt 42	Forest Pathology, 2 †4	4
Fy 7	Lumber Manufacture	2	Fy 14	Forest Products	2
Fy 9	Wood Preservation	1	Fy 16	Wood Technology, 1 †2	2
Fy 51	Regional Silviculture	2	Fy 52	Policy and Economics	4
Fy 53	Forest Finance, 3 †2	2		Elective	6
Fy 55	Forest Management	2			
	Last 9 weeks				
Fy 41	Practice of Forestry, *48	9			
		18			18

CURRICULUM IN WILD LIFE CONSERVATION

A four-year undergraduate curriculum is offered in Wild Life Conservation and a limited number of graduate courses are available to students with sufficient undergraduate background. The four-year undergraduate curriculum in the first year is the same as that for Forestry.

This sequence is arranged to cover a wide field of activities including the management of all types of game, waterfowl, fish and fur bearers on Federal, state, and privately owned land. It includes basic training in the artificial propagation of fish and game, and conservation of non-game species.

This curriculum prepares men for management and extension work in Federal and state departments concerned with the utilization of natural resources, for teaching in colleges and universities, and for research and experimental work in Federal, state, and college experiment stations. Graduates are eligible for Civil Service examinations prepared by the Federal Government.

The first two years are devoted largely to fundamental and pre-technical subjects which are basic for the applied courses offered in the last two years. A camp course of six weeks' practical experience is required of all undergraduates between the sophomore and junior years. This work is offered at a camp conducted by the Department where forest areas are being operated under a system of wild-life management.

SOPHOMORE YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bt 33	Forest Botany, 2 †4	4	Bc 4	Organic Chemistry, 3 †2	4
Ce 1	Plane Surveying	3	Bt 36	Taxonomy, 2 †4	4
Ce 3	Field Work and Plotting, *9	3	En 26	Aquatic Entomology, 2*3	3
Fy 13	Forest Protection	2	Mt 4	Military, †3	2
Mt 3	Military, †3	2	Ph 10	Incubation and Brooding of Game Birds, 1 †2	2
Zo 9	Ichthyology, 2 †4	4	Zo 10	Ornithology, 2 †4	4
Pt 3	Physical Education, 2	0	Pt 4	Physical Education, 2	0
		18			19

SUMMER CAMP

No.	Subject	Cr. Hours
Fy 35s	Silviculture	2
Fy 37s	Forest Mensuration	1
Fy 45s	General Ecology	3
		6

JUNIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bc 5	Biochemistry, 3 †2	4	Eh 6	Technical Composition	2
Bt 41	Biotic Relationships, 2 *3	3	Fm 48	Agricultural Economics	3
Bt 45	Genetics	3	Fy 22	Mapping, 1 *6	3
By 1	Bacteriology, †6	3	Fy 24	Game Food and Cover Planting, 1 *3	2
By 3	Bacteriology	2	Zo 14	Animal Parasitology, 2 *3	3
Zo 13	Mammology, 2 †4	4		Elective	5
		19			18

SENIOR YEAR

	First 9 Weeks				
An 9	Disease and Parasite Control (in wild life), 3 *3	2	Fy 52	Policy and Economics	4
Fy 55	Forest Management	2	Zo 20	Fish Culture, 2 *3	3
Fy 57	Game Management	2	Zo 22	Animal Ecology	3
Zo 19	Fish Culture	1		Elective	9
Zo 21	Animal Ecology	1			
	Last 9 Weeks				
Fy 41	Practice of Forestry, *48	9			
		17			19

CURRICULA IN HOME ECONOMICS

The Department of Home Economics offers curricula based on a consideration of the problems of the contemporary home and responsibilities of the modern home maker. The basic curriculum requires foundation work in the physical and social sciences, and Home Economics courses applying these sicences to problems of the home. In addition the student is required to complete a sequence of fifteen or more hours based on interest in a specialized subject-matter field or in a particular vocation. These sequences are listed below. As it is impossible in the limited time of classroom and laboratory to

develop to a point of skill all the techniques necessary to success in a vocation, the student is expected to make provision during her vacations, or during the school year, for developing the kinds and degrees of skill essential to beginning the vocation she has selected.

Each curriculum includes in its total of 128 hours, 17 to 40 hours of electives in any department of the University for which the student is adequately prepared. These electives may be used to strengthen the individual's general education or her vocational preparation.

Basic Curriculum in Home Economics

Required of all students majoring in the department.

FRESHMAN YEAR

Fall Semester				*Spring Semester*			
No.	Subject	Cr. Hours		No.	Subject	Cr. Hours	
Ch	5 Inorganic Chemistry, 2 †4	4		Bc	4 Organic Chemistry, 3 †2.	4	
Eh	1 Composition	3		Eh	2 Composition	3	
Gc	1 Intro. to Soc. Sci.....	3		Gc	2 Intro. to Soc. Sci.....	3	
He	1 Intro. to Home Economics	3		He	2 Clothing Selection Problems	3	
He	3 Design, 1 †4.....	3		He	4 House Furnishing, 2 †2..	3	
Pe	1 Physical Education, 2.....	0		Pe	2 Physical Education, 2....	0	
		16				16	

SOPHOMORE YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
He	5 Foods, 2 †4.....	4	He	6 Foods, 2 †4.....	4
Py	1 General Psychology, 2 †2	3	Py	2 General Psychology, 2 †2	3
Sequence and Elective.....		9	Zo	12 Human Physiology, 3 †4	5
Pe	3 Physical Education, 2....	0	Sequence and Elective.....		4
			Pe	4 Physical Education, 2....	0
		16			16

JUNIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
By 3	Bacteriology	2	By 10	Sanitation, first 12 weeks	2
By 5	Bacteriology, †2.....	1	He 10	Home care of Sick, last 6 weeks.....	1
Sy 1	General Sociology.....	3	He 14	The Pre-School Child...	3
Sequence and Elective.....10			Sequence and Elective.....10		
		16			16

SENIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
He 11	Household Management .....2 or 3		*He 22	Household Admin.....	3
He 53	Family Economic Problems .....2 or 3		*He 70	Survey Examination.....1 or 2	
Ee 5a	Household Equipment....	3	Sequence and Elective...12 or 11		
Sequence and Elective.....7 to 9					
		16			16

*May be taken in the fall as He 21 and He 69.

Sequences

HOME ECONOMICS EDUCATION. 37 hours.

This sequence fulfills the requirements for the Maine Professional Secondary Certificate necessary for teaching in the high schools of the state, and qualifies the student for teaching home economics and certain science courses in Maine high schools. She also is eligible, after a year of teaching experience, for the vocational certificate which qualifies for teaching in the schools which offer vocational programs with Federal support.

Requirements are as follows:

Bc 5	Biochemistry	4
Ed —	Methods	3
Ed 77	Education	3

He 7; 8	Clothing Construction Problems	4
He 51; 52	Advanced Clothing	6
He 56	Home Economics Education	3
He 59 (60)	Special Problems	2
He 63	Nutrition	2
He 66	Dietetics	2
He 71 (72)	Supervised Teaching	3
He 81 (82)	Institutional Management	3
Pb 1 (2)	Public Speaking	2

There is a demand for teachers prepared and certified to handle other high-school subjects in combination with Home Economics. Students who take this sequence are advised that it may be wise to choose their electives, in order to prepare themselves for certification in an additional subject. Pj 2, 4, Summer Project, is also recommended.

EXTENSION TEACHING. 28 hours.

This sequence prepares the student for work as a home demonstration agent or a 4-H Club agent.

Bc 5	Biochemistry	4
Ed 77	Methods	3
He 7; 8	Clothing Construction	4
He 51; 52	Advanced Clothing	6
He 59 (60)	Special Problems	2
He 63	Nutrition	2
He 65	Dietetics	2
He 81	Institutional Management	3
Pb 1 (2)	Public Speaking	2

Electives are recommended in journalism, horticulture, and additional home economics, education and social science. Since the sequence requirement is very similar to the Home Economics education sequence, a student may complete both.

FOOD AND NUTRITION. 22 hours.

This sequence is offered for students preparing for positions as hospital dietitians, Red Cross nutritionists, research workers in foods and nutrition, or home economists in commercial foods work. It meets the requirement of the American Dietetics Association for admission to student dietitianship in hospitals offering a Class A training course.

*Bc 53 or 61	Biochemistry	3
Bc 5	Biochemistry	4
He 63 (64)	Nutrition	2 or 3
He 65	Dietetics	2
*He 56	Home Economics Education	3
*He 67	Nutrition in Abnormal Conditions	2
*He 81, 83	Institutional Management	6

*For students preparing for commercial foods positions or for research, appropriate substitutes may be made for *starred courses.

TEXTILE AND CLOTHING SEQUENCE. 16 hours.

For students interested in the clothing, textile, or decoration field, as stylists, designers, buyers, or advertising copy writers.

He 7; 8	Clothing Construction	4
He 17	Applied Design	2
He 51, 52 a or b	Advanced Clothing	6
He 61	History of Costume	1
At	Art Courses	3

Students who select this sequence are recommended to include as electives such subjects as projects and special problems in clothing, and courses in journalism, accounting, drafting, public speaking, psychology, and medieval history.

CHILD DEVELOPMENT. 19 hours.

For students preparing for work in the rapidly expanding fields of nursery school and parental education.

Bc 5	Biochemistry	4
Ed 43 (44)	Character Education	3
He 59 (60)	Special Problems in Nursery School	2
He 63 (64)	Nutrition	2 or 3
He 65	Dietetics	2
Py 67, 71, 72, 81	(Six hours selected)	6

Students are advised to include courses in public speaking, in the appreciation of art and music, and additional zoology, English, education, and sociol-

ogy. Arrangements are made for a selected student each year to do one semester's work in this field at the Merrill-Palmer School, Detroit, Michigan. The work will be accepted as applying on basic and sequence requirements.

Other Sequences

For students whose needs are not met by these sequences, others may be arranged. They will consist of selected advanced Home Economics courses, and related work in other departments.

Special Students in Agriculture

Persons not candidates for a degree who desire to take special studies may be permitted to do so, if, upon examination, they give satisfactory evidence that they are prepared to pursue them. This privilege is intended only for students of unusual maturity (at least twenty-one years of age) or previous advancement in particular subjects, and not for those who are incompetent to pursue a regular course. If they subsequently desire to become candidates for a degree, they will be required to meet all the entrance requirements.

The annual expenses for courses of one year or more are the same as those for students in the four-year curricula.

TWO-YEAR COURSE IN AGRICULTURE

This is a course of training for young men who wish to become practical farmers, farm superintendents, dairymen, poultrymen, fruit-growers, or gardeners, but who cannot devote time to full high school or college training. It is also open to women.

The same equipment is used as in the four-year curricula, but the work is more elementary in nature. Most of the classes are separate and distinct from the four-year classes.

Students who have satisfactorily completed two years of high-school work are eligible for registration.

There are no entrance examinations required of those who desire to enter the Two-Year Course.

On completion of the course a certificate is awarded those who have satisfactorily met the requiremnts.

Curriculum for Two-Year Course in Agriculture

FIRST YEAR

Fall Semester		*Spring Semester*	
Subject	Hours	Subject	Hours
Animal Husbandry, 2 †2	3	Carpentry, †4	2
Business Arithmetic	2	Dairy Husbandry, 2 †4	4
English	2	English	2
Farm Botany, 1 †2	2	Farm Economics	2
Farm Crops, 2 †2	3	Fruit Growing, 2 †2	3
Forge Work, *3	1	Poultry Husbandry, 2 †2	3
Fruit Handling, 2 †2	3	Soils and Fertilizers, 3 *3	4
Poultry Husbandry, 2 †2	3		
	19		20

SECOND YEAR

Subject	Hours	Subject	Hours
Animal Husbandry, 2 †2	3	Animal Husbandry, 3 †2	4
Animal Husbandry (Common Diseases of Farm Animals)	3	English	2
English	2	Farm Crops, 2 †2	3
Farm Engineering and Mechanics, 2 *3	3	Farm Machinery, 2 *3	3
Farm Insects, 1 †2	2	Forestry	2
Farm Management, 2 *3	3	Marketing Farm Products	3
Poultry Husbandry	2	Small Fruit Culture and Plant Propagation, 2 †2	3
Vegetable Growing, 2 †2	3		
	21		20

A description of subjects offered will be found on page 147.

SHORT COURSES IN THE COLLEGE OF AGRICULTURE

Short Courses are offered to the large number of young men and women and adults who are engaged or about to engage in agricultural or homemaking pursuits and who desire to devote a short time during the winter months to the securing of definite instruction along the line of their special interests.

Courses of three weeks' duration are available in Dairy Production, Poultry Raising, Potato Production, and other subjects. Courses of shorter duration in other specialized subjects are also available.

Applicants for admission must be at least sixteen years of age and have had a good common-school education. Information concerning short courses may be secured by addressing the Director of Short Courses, College of Agriculture.

FARM AND HOME WEEK

There are a large number of people who cannot come to the college for a great length of time, but who desire a few days of practical instruction. To reach and accommodate these, "Farm and Home Week" is held. Lectures on practical agricultural subjects are given morning, afternoon, and evening. Practical demonstrations occupy a part of each afternoon. Besides the practical subjects discussed, one or more sessions are given up to problems of rural betterment. Considerable emphasis is placed on agricultural marketing problems peculiar to Maine. The homemaking program includes the various phases of home management and is of interest to both rural and urban homemakers. Dates and programs may be secured each year by addressing the College of Agriculture.

THE EXTENSION SERVICE

The Extension Service is organized as a department of the College of Agriculture. It operates under the provisions of the Smith-Lever and Capper-Ketcham Acts, receiving its funds from State and Federal sources.

Its personnel is made up of two groups of agents. One group, the County Extension Agents, consists of agricultural agents, home demonstration agents, and club agents, having their headquarters within the counties in which they serve. The other group, the State Agent force, consists of a limited number of specialists and leaders having their headquarters at the University but working with and assisting the County Extension Agents.

The Extension Service through these men and women gives direct assistance to people living on the farms and in the rural and urban homes of this state. The Farm Bureau, an organization having a membership of more than 10,000 men and women, coöperates with the Extension Service in the determination and development of its county and community programs of work.

Extension Lecture Courses

Lectures in these courses are given under the auspices of granges, clubs, societies, and other gatherings by the members of the agricultural faculty.

A complete list of the lectures will be forwarded on request.

Correspondence Service

It is recognized that a letter is a poor substitute for a personal conference in dealing with perplexing problems with which people are constantly confronted in the vocations of agriculture, forestry, and home economics, but the teachers in all departments of the college are always ready to furnish information dealing with these problems and thus render the greatest possible service to the people of the State. The College of Agriculture, therefore, welcomes inquiries on practical agricultural, forestry, and home economics topics. Extension bulletins dealing with different phases of these subjects are published at frequent intervals throughout the year and will be sent without cost to persons applying for them. A list of bulletins and circulars available for distribution will be forwarded on request.

Departments of Instruction

NOTE.—A star (*) before the time designated for a course indicates that three or sometimes more hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit.

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

When a course is offered in the first semester and also repeated in the second, it is designated by two numbers, the second of which is in parenthesis.

Two-semester courses designated with a period between the two numbers (e.g., 1. 2) may be taken either semester; when a semi-colon appears between the two numbers (e.g., 1;2), the first semester is prerequisite to the second; and when a dash appears between the two numbers (e.g., 1-2), both semesters must be taken to obtain credit.

Courses numbered 1-50 are for undergraduates only; courses numbered 51-100 are for graduates and undergraduates; courses numbered above 100 are primarily for graduates.

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

PROFESSOR MERCHANT; PROFESSOR JONES; ASSOCIATE PROFESSOR DOW; ASSISTANT PROFESSOR NIEDERFRANK

48. AGRICULTURAL ECONOMICS.—An introductory course in the principles of economics as applied to agriculture. Subjects considered are development of commercial agriculture, price-making forces, production, land tenure, farm capital, farm labor, foreign trade, tariff, taxation, and farm income. This course is intended to give a broad fundamental training in the subject. *Three hours a week. Three credit hours.* MR. JONES

52. FARM ACCOUNTING.—All forms of farm records; farm inventories, cash accounts, single-enterprise cost accounts, complete farm-cost accounting system, and miscellaneous records. Special emphasis is given to the interpretation of results and their practical application in the management of farms. Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.* MR. JONES

62. Agricultural Business Accounting.—This course includes accounting methods for different types of farm business organizations such as coöperative marketing associations, creameries, cheese factories, Grange stores, and other similar organizations. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Niederfrank

65. Forest Accounting.—This course includes accounting methods for the different types of logging and lumbering operations. It involves problems in cost and income factors, and profit and loss statements of various kinds of forest operations. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Niederfrank

73. Advanced Agricultural Economics.—An advanced course in the more important economic problems facing agriculture, such as effects of price declines, agricultural relief, production control, protective tariff, foreign trade and competition, agricultural organization, rent and systems. Prerequisite, Course 48. *Three hours a week. Three credit hours.* Mr. Jones

74. Farm Management.—Farming as a business; size of business; balance; production rates; labor efficiency; crop rotations; machinery; farm layout; building arrangement; choosing and buying a farm; ways of starting to farm; and study of farm organization and management of specific farms in the vicinity. Classroom, *three hours a week;* laboratory, **three hours a week. Four credit hours.* Mr. Jones

75. Agricultural Statistics.—Course consists of practical problems in frequency distribution; averages; measurements of dispersion; measurements of trends; seasonal variations and cyclical fluctuations; simple index numbers; simple linear and non-linear correlations; and standard and probable errors. Classroom, *one hour a week;* laboratory, **three hours a week. Two credit hours.* Mr. Merchant

76. Agricultural Marketing.—The first part of the course deals with the economic principles of the present marketing structure and its operation. The latter part involves the study of distribution and marketing of potatoes, apples, wheat, wool, hay, peaches, tobacco, truck crops, dairy products, poultry and poultry products, beef cattle, sheep, and hogs. *Three hours a week. Three credit hours.* Mr. Merchant

77. Agricultural Finance.—The farmers' credit needs are considered. Sources of credit available to farmers and conditions under which loans are made. Special attention is given to the study of the Federal Reserve System, Farm Credit Administration, store credit, and the place of mortgage and insurance companies in furnishing farm credit. *Two hours a week. Two credit hours.* Mr. Merchant

78. Marketing Potatoes.—A specialized course in the marketing of potatoes emphasizing trends in production, regional competition, grades, containers, storage, transportation, sale methods, and price relationships. *Three hours a week. Three credit hours.* Mr. Libby

79. Cooperative Marketing.—Principles involved in coöperative organizations including the more important factors affecting the efficiency and success of coöperative organization, such as volume of business, capital and finance, management and price policies. The history, organization, and management of coöperative associations marketing the more important agricultural products. *Two hours a week. Two credit hours.* Mr. Dow

81. 82. Current Economic Problems.—Study of the effect of changing economic conditions and various governmental policies on our agriculture. All economic phases of the problems are considered, including farm management, prices, foreign trade, marketing, credit, taxation, agricultural adjustments, and associated fields. *One hour a week. One credit hour.*
Members of the Departmental Staff

83-84. Thesis.—All senior major students of the department are required to prepare a comprehensive thesis on a problem in agricultural economics, farm management, marketing, finance, statistics, or prices. **Six hours a week. Three credit hours.* Mr. Merchant, Mr. Niederfrank

85. Agricultural Marketing (Dairy and Poultry Products).—A specialized course in the economic factors involved in marketing dairy and poultry products in New England. Production; regional competition; grades; containers; storage; transportation; finance; sales methods; foreign trade; tariff; surplus; demand, price, and methods of price determination and the costs of marketing are considered. *Two hours a week. Two credit hours.*
Mr. Dow

86. Agricultural Marketing (Apples and Small Fruits).—A specialized course in the economic factors involved in marketing apples and small fruits with special emphasis on New England. The topics considered are production, varieties, regional competition, grades, containers, storage, transportation, finance, sales methods and the costs of marketing. *Two hours a week. Two credit hours.* Mr. Niederfrank

87. Agricultural Prices.—The underlying factors causing price changes in agricultural commodities, long-time trends, seasonal variation, and cyclical movements of specific commodity prices, effects of reflation and deflation, inter-relationship of supply and prices, gold, and prices. *Two hours a week. Two credit hours.* Mr. Jones

91. Land Utilization.—Utilization of the land area for various purposes, such as for agriculture, forestry, recreation, and industry, giving primary

attention to agriculture. Physical factors and economic conditions determining utilization of farm land, production areas for important farm commodities, shifts taking place in these areas, trends in population and consumption. Land utilization programs. *Two hours a week. Two credit hours.* MR. JONES

92. RURAL TAX PROBLEMS.—National, state, and local problems connected with rural taxation. The effect of increased tax burdens on farmers. Growth of public expenditures; sources of public revenues; the general property tax and its administration. How income, inheritance, and gasoline taxes affect farmers. Tax reform proposals. Problems involved in an equitable distribution of the tax burden. *Two hours a week. Two credit hours.*
MR. JONES

101. PRODUCTION COSTS.—Cost of producing important farm commodities in Maine and in competing areas; relation of cost of production to price; and efficiency of production under varying economic conditions. Prerequisite, Course 52. *Credit, arranged.* MR. JONES, MR. NIEDERFRANK

102. ADVANCED AGRICULTURAL STATISTICS.—A continuation of Course 75 giving special attention to the methods and practical application of correlation analysis involving two or more variables, multiple correlation, and linear and curvilinear relationships. Prerequisite, permission to register. *Credit, arranged.* MR. DOW

103. ADVANCED FARM MANAGEMENT.—A continuation of Course 74 with special emphasis on the organization and management of specified types of farms under certain economic conditions, farm prices, and labor efficiency. The student is given an opportunity for study along some line in which he has a special interest. Prerequisite, Course 74. *Credit arranged.* MR. JONES

104. ADVANCED AGRICULTURAL MARKETING.—Advanced work in the marketing of a specific agricultural commodity. Special emphasis is given to marketing potatoes, apples, poultry, eggs, milk, butter, and cheese. Problem method is followed. Prerequisite, permission to register. *Credit, arranged.* MR. MERCHANT, MR. NIEDERFRANK

AGRICULTURAL EDUCATION

PROFESSOR HILL

2. PRACTICE TEACHING.—Seniors who are minoring in agricultural education are expected to do some directed teaching in an approved school. This may necessitate a week's absence from the University. Each student will be required to observe four classes and teach eight classes. All lesson plans will be completed before the student leaves for his practice teaching. *Two credit hours.*

3; 6. Special Methods in Teaching Agriculture.—The work covers two semesters and is not a repeated course. The following are taken up: Federal legislation; aims and purposes; the curriculum; program making; course of study; teaching plans; rooms and equipment; texts and references; part-time and evening schools; Future Farmers of America; publicity; community work; reports; programs of work; examinations and grades. *Two credit hours each semester.**

4. Practice Teaching.—For seniors who major in Agricultural Education. The work is similar to that of Course 2, but in addition students will be out three weeks instead of one. Lesson plans for the last two weeks will be made while on the job, instead of being completed before the student leaves for his practice teaching. An allowance is given, sufficient to pay for traveling expenses and board. *Four credit hours.*

5. Supervised Farm Practice.—This course includes the following: requirements for supervised farm practice; importance of farm practice; selection of projects; project plans; project records; project supervision; project problems; long-time supervised farm practice program; supervised practice in lieu of a project; project budgeting; number and scope of projects; credit allowance for supervised farm practice; project contests. *Two credit hours.**

7. Lesson Planning.—A study of possible teaching methods and devices; practice in making lesson plans; methods of lesson emphasis; directing the supervised study period; directing the discussion period. *Two credit hours.**

8. Teaching Farm Mechanics.—Importance, aims, and purposes; choosing type of shop; tools and equipment; determining shop organization; shop texts and references; content and organization of courses; securing orders for shop work; making plans; instructing the class; grading shop projects. *Two credit hours.**

AGRONOMY AND AGRICULTURAL ENGINEERING

Professor Chucka; Assistant Professor Swift; Assistant Professor Raleigh; Assistant Professor Libby

Soils and Fertilizers

1. Soils.—Origin, types, physical and chemical properties of soils and their relation to crop production. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Libby

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* All work is scheduled for three periods per week, but classes meet only ten weeks each semester.

3. Soils (Forest).—Origin, types, physical and chemical properties of soils as related to forests. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Swift

5. Soil Formation, Erosion, and Conservation.—Soil-forming rocks and minerals, agencies involved in soil formation; causes, types and extent of soil erosion; principles and methods of soil conservation. Classroom, *three hours a week. Three credit hours.* Mr. Chucka

6. Soils and Fertilizers.—Physical and chemical composition of soils and fertilizers as related to time and method of application, residual effects of fertilizers, fertilizer injury and fertilizer placement. Classroom, *two hours a week. Two credit hours.* Mr. Chucka

51. Soil Fertility.—Principles involved in the improvement and maintenance of soil fertility through the use of lime, stable manures, green manures, and commercial fertilizers. Classroom, *two hours a week. Two credit hours.* Mr. Chucka

52. Soil Classification, Surveying, and Mapping.—Theories, methods, and uses of soil classification, surveying, and mapping. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Swift

54. Soil Analysis.—Principles, methods, and practical value of the various field and laboratory methods of soil analysis. Prerequisites, Courses 1 and 6. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* Mr. Chucka, Mr. Libby

Crops

11. Field Crops.—A course dealing with the principal field crops of the United States with special reference to crops important in New England. Consideration is given to general culture, use, and their adaptation. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Raleigh

13. Weed Identification and Control.—Characteristics of weeds, their sources, method of reproduction, dissemination, migration, and methods of control. Laboratory, †*four hours a week. Two credit hours.* Mr. Raleigh

14. Sweet Corn, Beans, and Peas.—The production of sweet corn, beans, and peas for canning purposes. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* Mr. Raleigh

15. Potato Production.—A general study of all factors involved in the production of potatoes. Varieties, seed selection, preparation of land, planting, fertilization, spraying, harvesting, storing, grading, and marketing.

Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. LIBBY

16. FORAGE AND PASTURE CROPS.—Grasses, legumes, and root crops, their management and uses for forage and pasture. Prerequisite, Course 11. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. RALEIGH

60. CROP IMPROVEMENT.—Principles and methods involved in field-crop improvement and methods of testing new varieties. Prerequisite, Botany 45. *Three hours a week. Three credit hours.* MR. RALEIGH

62. SEED POTATO PRODUCTION.—A specialized study of the factors involved in seed potato production emphasizing selection of foundation seed stock, tuber unit planting, potato diseases, roguing, certification and development, and testing of new varieties. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. LIBBY

*78. MARKETING POTATOES.—A specialized course in the marketing of potatoes, emphasizing trends in production, regional competition, grades, containers, storage, transportation, sale methods, and price relationships. *Three hours a week. Three credit hours.* MR. LIBBY

Agricultural Engineering

30. AGRICULTURAL ENGINEERING.—A general course covering briefly all phases of agricultural engineering. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. SWIFT

33. FARM STRUCTURES.—Planning, designing, and the construction of farm buildings; water systems; heating systems; sewage disposal; and the use of concrete on the farm. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. SWIFT

34. FARM SHOP.—Training in the care and use of tools and equipment for ordinary construction and repair work found necessary on the farm. †*Four hours a week. Two credit hours.* MR. SWIFT

35. DRAINAGE AND LAND RECLAMATION.—A course covering the principles and practices of surveying, mapping, and leveling on the farm; improving and reclaiming farm lands. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. SWIFT

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* The description of this course also appears under the Department of Agricultural Economics and Farm Management and should be registered for under the designation, Fm 78.

36. Farm Machinery and Power.—Simpler laws of mechanics as applied to farm machinery; the operation, adjustment, care, and efficiency of the more important farm machines; the application of power to farm operations and the operation, care, and repair of various forms of motors used for agricultural purposes. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Swift

Agronomy and Agricultural Engineering (General)

81. 82. Seminar.—Study of recent literature, problems and experiments pertaining to soils, crops, and agricultural engineering. For juniors and seniors majoring in Agronomy. *One hour a week. One credit hour.*
Members of the Departmental Staff

83. 84. Special Problems in Agronomy and Agricultural Engineering.—*Credit, arranged.* Members of the Departmental Staff

85-86. Thesis.—*Credit, arranged.*
Members of the Departmental Staff

ANIMAL INDUSTRY

Professor Corbett; Professor Dorsey; Professor Smyth; Assistant Professor Gardner; Assistant Professor Hall; Assistant Professor Witter; Mr. Smith

Animal Husbandry

2. General Animal Husbandry.—The live stock industry, local and regional, including a study of breed histories and developments, and market types and classes. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Corbett, Mr. Hall

3. Care, Feed, and Management of Live Stock.—Selection, breeding, growing, and maintenance of horses, cattle, sheep, and swine. Consideration is given to general principles of nutrition as applied to live stock, composition of feed stuffs, comparison and use of feeding standards, and calculating rations. Prerequisite, Course 2. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.* Mr. Corbett, Mr. Hall

42. Advanced Live Stock Judging and Management.—A laboratory course in which the individual student gets experience in handling live stock and preparation of stock for show ring and market. In so far as it is

practicable, visits will be made to livestock farms. †*Two hours a week. One credit hour.* MR. HALL

44. ADVANCED LIVE STOCK FEEDING AND MANAGEMENT.—Nutrition and feeding experiments, as well as the methods and practices of the most successful feeders in production of milk, meat, and rearing of horses. Prerequisite, Course 3. *Two hours a week. Two credit hours.* MR. CORBETT

55. ANIMAL NUTRITION.—The physiology of digestion; the metabolism of carbohydrate, fat, protein, and mineral nutrients; net energy and methods used in determining energy values. Application of nutritional theories to practical feeding problems. Prerequisite, Course 44. *Two hours a week. Two credit hours.* MR. CORBETT

57. 58. PROBLEMS IN ANIMAL HUSBANDRY.—*Credit, arranged.* MR. CORBETT

60. ADVANCED ANIMAL BREEDING.—Principles and theories of breeding as applied to the live stock industry; study of pedigrees and records using the breed herd books; and economic study of the generative systems of domestic animals. Prerequisite, Course 3. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. HALL

63. 64. SEMINAR.—Preparation and presentation of papers dealing with topics in the field of Animal Husbandry. *One hour a week. One credit hour.* MR. HALL

65. ADVANCED ANIMAL INDUSTRY.—Market classes and types; pasture and feed lot management; and farm and packing house methods of preparing animal products for the market. Prerequisite, Course 3. *Two hours a week. Two credit hours.* MR. HALL

Animal Pathology

5. ANATOMY OF DOMESTIC ANIMALS.—A general course in comparative anatomy of the domestic animals and birds. Emphasis is placed on the important histological features, and those parts of the body involved in the common diseases. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. WITTER

6. PHYSIOLOGY OF DOMESTIC ANIMALS.—Principles of physiology as applied to domestic animals including birds. Special emphasis is placed on comparative features, especially of the circulatory, respiratory, digestive, and uro-genital systems. *Three hours a week. Three credit hours.* MR. WITTER

7. ANIMAL HYGIENE.—Principles of hygiene and sanitation applied to prevention and control of common diseases of domestic animals. Special

attention given to the fundamentals of disease processes. Prerequisite, Course 6. *Two hours a week. Two credit hours.* MR. WITTER

8. ANIMAL PATHOLOGY.—A study of infectious and parasitic diseases of domestic animals including the principles of immunology as applied to biological treatment and prevention. Prerequisite, Course 7. *Two hours a week. Two credit hours.* MR. WITTER

9. DISEASE AND PARASITE CONTROL (IN WILD LIFE).—A study of known infectious and parasitic diseases of game and fur-bearing animals, emphasizing preventive and control measures. First half semester. Classroom, *three hours a week;* laboratory, **three hours. Two credit hours.* MR. WITTER

Ph 8. POULTRY DISEASES.—Principles of hygiene and sanitation applied to the prevention and control of the diseases of poultry, including a detailed consideration of the pathological processes involved in the common diseases. *Two hours a week. Two credit hours.* MR. WITTER

Dairy Husbandry and Dairy Technology

1. GENERAL DAIRYING.—Milk, its secretion, composition, properties, pasteurization, and separation. Dairy practices in producing and handling milk and cream. Dairy equipment; use of common dairy machinery. Testing dairy products for fat (Babcock method), acidity, total solids, and common adulterations. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. DORSEY, MR. SMITH

2. BUTTER MAKING.—Creamery butter industry. Starter making, cream ripening, churning, and preparing butter for market. Prerequisite, Course 1. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* MR. SMITH

3. CHEESE MAKING.—Manufacture and curing of various types of cheese, including cheddar and soft cheeses adapted to the New England trade. The laboratory work requires six consecutive hours. Prerequisite, Course 1. Classroom, *two hours a week;* laboratory, **six hours a week. Four credit hours.* MR. DORSEY

4. CONDENSED MILK.—Manufacture of unsweetened and sweetened condensed milk, and milk powder. Sanitary control of milk supply, factory methods, defects in products, and economic phases of the industry. Prerequisite, Course 1. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. DORSEY

5. MARKET MILK.—The market milk industry from standpoints of production, supply, sanitary control, transportation, processing, delivery, organization, and economic aspects. Prerequisite, Course 1. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.*

MR. DORSEY

6. JUDGING MILK AND MILK PRODUCTS.—Study and practice of methods employed in scoring and judging milk and milk products. Prerequisite, Course 1. †*Two hours a week. One credit hour.* MR. DORSEY

51. DAIRY TECHNOLOGY.—Milk products and by-products, methods of manufacture and processing, and scrutiny of recent literature relating to advances in dairy technology. Lectures and assigned readings. Prerequisite, Course 1. *Two hours a week. Two credit hours.* MR. DORSEY

53. 54. PROBLEMS IN DAIRY HUSBANDRY.—*Credit, arranged.*

MR. DORSEY

55. DAIRY REFRIGERATION.—Principles of refrigeration, refrigeration machinery and equipment, and applications of refrigeration to milk and milk products. *Two hours a week. Two credit hours.* MR. DORSEY

58. ICE CREAM MAKING.—Manufacture of ice cream and ices. Prerequisites, Courses 51 and 55. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. DORSEY

61. 62. DAIRY TECHNOLOGY SEMINAR.—Study of recent and current literature dealing with research problems and the industrial applications of research findings in the technological field of the dairy industry. For seniors majoring in Technology. *One hour a week. One credit hour.* MR. DORSEY

63. ADVANCED DAIRY PRODUCTS TESTING.—Testing milk and milk products by the Mojonnier method. Open to senior students in the Department of Animal Industry. †*Two or four hours a week. One or two credit hours.* MR. DORSEY

64. ADVANCED DAIRY PRODUCTS CONTROL.—Approved methods of testing dairy products, chemical, physical, and bacteriological used for control purposes in the dairy industry and the practical application of such new tests as they are introduced. Prerequisite, Course 63. †*Four hours a week. Two credit hours.* MR. DORSEY

66. DAIRY MACHINERY.—Milk and milk products machinery, accessory machinery, and plant layout. Prerequisite, Course 51. †*Four hours a week. Two credit hours.* MR. DORSEY

Poultry Husbandry

1. GENERAL POULTRY HUSBANDRY.—A general course in poultry production, incubation, brooding, houseing, feeding, and management. Labora-

tory work includes production judging, preparation of poultry products for market, egg grading, and other poultry management practices. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*

MR. SMYTH

2. POULTRY BREEDING.—Principles of breeding as applied to poultry inheritance of egg productivity; systems of breeding; and study of pedigrees and breeding results. Some time is given to a study of methods used by successful poultry breeders. Prerequisites, Course 1 and Botany 45. Classroom, *two hours a week. Two credit hours.*

MR. SMYTH

3. EXHIBITION AND PRODUCTION POULTRY JUDGING.—Selection and mating of fancy and utility poultry. Laboratory practice in judging fancy and utility poultry, and a study of the standard requirements of the breeds. Prerequisite, Course 1. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.*

MR. GARDNER

4. INCUBATION AND BROODING.—Principles of incubation and brooding. Laboratory practice in incubator and brooder management. Prerequisite, Course 1. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*

MR. SMYTH

5. POULTRY FEEDING.—General principles of nutrition as applied to poultry; poultry feeds; calculating rations; estimating cost of feeds and feeding; and methods of feeding for economical production. Prerequisite, Course 1. *Two hours a week. Two credit hours.*

MR. GARDNER

6. POULTRY FARM MANAGEMENT.—The business of poultry farming; systems and operations in use on large poultry farms; planning of specialized poultry farms. In so far as is practicable, visits will be made to poultry farms. Prerequisites, Courses 1, 2, 3, and 5. Classroom, *one hour a week;* laboratory, †*two hours a week. Three credit hours.*

MR. GARDNER

7. POULTRY SEMINAR.—A study of poultry organizations and literature giving results of recent research work in the field of poultry husbandry. Prerequisites, Courses 1, 2, and 3. Classroom, *two hours a week. Two credit hours.*

MR. SMYTH

10. INCUBATION AND BROODING OF GAME BIRDS.—Principles of incubation and brooding; study of equipment and practical methods of brooder and range management. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.*

MR. SMYTH, MR. GARDNER

51. 52. PROBLEMS IN POULTRY HUSBANDRY.—*Credit, arranged.*

MR. SMYTH

BACTERIOLOGY AND BIOCHEMISTRY

PROFESSOR HITCHNER; PROFESSOR SMITH; ASSISTANT PROFESSOR HIGHLANDS; ASSISTANT PROFESSOR PEDLOW; MR. DICK

Bacteriology

1. BACTERIOLOGY.—A laboratory course in general bacteriology. Open to all students. The work includes the preparation of the usual culture media and study of morphological and biological characteristics of typical bacteria. Some outside reading is required. Course 3 must be taken in conjunction. †*Six hours a week. Three credit hours.*

MR. HITCHNER, MR. HIGHLANDS, MR. DICK

2. BACTERIOLOGY.—Similar to Course 1. Offered for students in the College of Technology and others who may elect it. Special emphasis is placed upon bacteriology of water and sewage. Prerequisite, Course 3. †*Six hours a week. Three credit hours.* MR. HIGHLANDS, MR. DICK

3. BACTERIOLOGY.—A lecture course open to all students. It must be elected by students taking Course 1. Subjects considered include the history of bacteriology; classification and biological characteristics of bacteria; bacteria in air, water, soil, and dairy products; relation of bacteria to health and disease; and immunity. *Two hours a week. Two credit hours.*

MR. HITCHNER

5. BACTERIOLOGY.—An abbreviated laboratory course in general bacteriology. Practical demonstrations of the relation of bacteria to disease, sanitation, food handling, and other economic phases are given. The aim is to develop appreciation of bacteriological technic. Course 3 must be taken in conjunction. †*Two hours a week. One credit hour.* MR. HIGHLANDS

10. SANITATION AND PUBLIC HEALTH.—General consideration of the relationship between the health of the individual and environment. Special emphasis placed on communicable diseases and their control. Sanitary programs for the home and community will be considered, such as sewage disposal, safe water supplies, industrial sanitation, and dust menaces. Prerequisite, Course 3. *Two credit hours.* MR. HIGHLANDS

52. BACTERIOLOGY.—Physiological, morphological, biochemical, and serological activities of bacteria; isolation and identification of pathogens together with animal inoculation and serological tests. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* MR. HITCHNER

54. BACTERIOLOGY (DAIRY).—Effect of pasteurization on milk bacteria; quantitative bacterial determination of butter and cheese; study of typical

milk bacteria; use of special biochemic tests for quality of milk; and study of effect of separators, clarifiers, coolers, etc., on the bacterial content of milk and cream. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.*

MR. HITCHNER

55. BACTERIOLOGY (SOIL).—A theoretical and experimental consideration of the relationship of microörganisms and soil fertility. A study of the factors which influence the changes produced through microbial action. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* MR. HITCHNER

61. 62. SEMINAR.—Preparation and presentation of papers dealing with current researches and developments in the fields of bacteriology. *One hour a week. One credit hour.* MR. HITCHNER

101. 102. PROBLEMS IN BACTERIOLOGY.—A laboratory and conference course for students desiring to pursue some particular line of bacteriological investigation. This may include problems in applied bacteriology especially devoted to food technology. Open only to students who have done considerable work in bacteriology. The kind of work is arranged to suit individual students. *Credit, arranged.* MR. HITCHNER, MR. HIGHLANDS

Biochemistry

1. ORGANIC CHEMISTRY.—For agricultural students. A study of the aliphatic compounds; hydrocarbons, alcohols, acids, amines, amides, etc., and brief resumé of the more important aromatic compounds. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*

MR. SMITH

2. BIOCHEMISTRY.—Plant biochemistry, including a study of the physico-chemical reactions of plants. A detailed study of carbohydrates, fats, and proteins; glucosides; and enzymes. Prerequisite, Course 1. Classroom, *three hours a week;* laboratory, †*four hours a week. Five credit hours.*

MR. SMITH

4. ORGANIC CHEMISTRY.—The aliphatic hydrocarbons, alcohols, acids, amines, amides, etc.; important aromatic compounds; the physico-chemical reactions of plants and animals. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.* MR. PEDLOW

5. BIOCHEMISTRY.—The carbohydrates, fats, and proteins; chemistry of digestion; respiration, blood, and lymph. Prerequisite, Course 4. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.*

MR. PEDLOW

8. Agricultural Chemistry.—Chemistry of the soil elements; colloidal condition and its effect upon the soil; chemical relationship of fertilizing constituents; and synthetic methods of producing fertilizing ingredients. Prerequisite, Course 1. *Two hours a week. Two credit hours.* Mr. Smith

9. Biochemistry.—Animal biochemistry. Composition of the animal body; chemistry of digestion; assimilation and metabolism of foods; chemistry of blood and lymph; and elimination of waste product. Prerequisite, Course 2. *Two hours a week. Two credit hours.* Mr. Smith

51. Biochemistry.—Detailed study of carbohydrates, fats and proteins; nature of enzymes and their effect upon food materials; chemical changes involved in digestion, assimilation, and absorption of foods; respiration; chemistry of the blood, including clinical methods of analysis; and elimination of waste material from the animal body. Prerequisite, Course 1 or 4. *Three hours a week. Three credit hours.* Mr. Smith

53. Agricultural Analysis.—A course dealing with quantitative analysis of fertilizers, foods, dairy products, and textile materials. Type of work will be adapted to needs of the student. Prerequisite, Course 1 or 4. *†Four or †six hours a week. Two or three credit hours.* Mr. Pedlow

57. Biological Colloids.—An introduction to colloidal chemistry with application and significance in biological systems. Open to junior, senior, and graduate students. Prerequisites, Courses 1 and 2 or 4 and 5. *Three hours a week. Three credit hours.* Mr. Pedlow

61. Advanced Biochemistry.—A complete consideration of the chemistry of carbohydrates, fats, and proteins with special reference to recent advances in these fields; methods used in biochemical research; special problems in plant and animal biochemistry. Prerequisite, Course 2 or 5. *Three hours a week. Three credit hours.* Mr. Smith

62. Advanced Biochemistry.—A continuation of Course 61, with special reference to literature devoted to the subject matter. Prerequisite, Course 61. *Three hours a week. Three credit hours.* Mr. Pedlow

64. Biochemical Laboratory Methods.—Methods used in the biochemical laboratory for testing carbohydrates, fats, amino acids, proteins, enzymes; studies of the colloidal properties of biochemical material; H-Ion concentration measurement methods; and individual problems dealing with various phases of biochemical investigations. Prerequisite, Course 53. *†Six hours a week. Three credit hours.* Mr. Pedlow

101. 102. Biochemical Research.—Problems dealing with various phases of biological or agricultural chemistry. Special problems may be selected by the student under direction and advice of the Department. A comprehensive written summary is required. Open only to senior and graduate students. *Credit, arranged.* Mr. Smith, Mr. Pedlow

BOTANY AND ENTOMOLOGY

PROFESSOR STEINMETZ; ASSOCIATE PROFESSOR DIRKS; ASSISTANT PROFESSOR STEINBAUER; ASSISTANT PROFESSOR HYLAND; MR. PRINCE

Botany

2. GENERAL BOTANY.—Fundamental principles of plant life, with special emphasis on life processes. Required of all students in the College of Agriculture excepting those registered in Home Economics. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.*

MR. STEINMETZ and ASSISTANTS

30. PLANT ECOLOGY.—Environmental factors determining adaptations and distribution of plant life. Prerequisite, Course 2. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. STEINBAUER

32. PLANT PHYSIOLOGY.—For students in Forestry. Prerequisites, Course 2 and one year of chemistry. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. STEINBAUER

33. FOREST BOTANY (DENDROLOGY).—Classroom and field work on characteristics, habits, and classification of trees and native shrubs of North America. Prerequisite, Course 2. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. HYLAND

34. FOREST BOTANY (PHYSIOGRAPHY).—A comprehensive study of range, distribution, and soil requirements of commercial timber trees of the United States. Prerequisite, Course 33. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. HYLAND

35. PLANT ANATOMY.—Structure of leaves, roots, and stems of herbaceous and woody plants. Prerequisite, Course 2. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.*

MR. STEINMETZ, MR. HYLAND

36. TAXONOMY.—Flora of the field, woods, and stream. Prerequisite, Course 33. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. STEINMETZ

41. BIOTIC RELATIONSHIPS.—Interrelationships of plants and animals with emphasis upon fungi and lichens. Prerequisite, Course 36. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.*

MR. STEINMETZ

42. FOREST PATHOLOGY.—Principles of plant diseases, as applied to seedlings, nursery stock, and forest trees; destruction of timber by fungi; and

principles of control. Required of seniors in Forestry. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. STEINMETZ

43. WOOD IDENTIFICATION.—Identification of commercial woods with the unaided eye, lens, and microscope. Open to students in Chemical Engineering. **Three hours a week. One credit hour.* MR. HYLAND

45. GENERAL GENETICS.—Principles of genetics. Prerequisite, one year of biology. Open to juniors and seniors. *Three hours a week. Three credit hours.* MR. STEINMETZ, MR. STEINBAUER

46. GENETICS LABORATORY.—Breeding of Drosophila. Study of plant materials. Supplementary reading. †*Four hours a week. Two credit hours.* MR. STEINMETZ

50. HISTOLOGICAL TECHNIQUE.—Methods and technique in the preparation of microscopic sections of plant material. Admission by arrangement with the instructor. Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.* MR. HYLAND

53. PLANT PHYSIOLOGY.—Classroom and laboratory work on the physiology of plants. Prerequisites, Course 2 and one year of chemistry. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. STEINBAUER

56. PLANT PATHOLOGY.—Principles of plant disease. Prerequisite, Course 2. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. STEINMETZ

57. TAXONOMY OF VASCULAR PLANTS.—Characteristics, identification, and classification of representative species of vascular plants. Prerequisite, Course 2. Classroom, *two hours a week;* laboratory and field, †*four hours a week. Four credit hours.* MR. STEINMETZ

59. GENERAL MYCOLOGY.—Morphology, identification, and classification of representative species of fungi. Prerequisite, Course 2. Classroom, *two hours a week;* laboratory and field, †*four hours a week. Four credit hours.* MR. STEINMETZ

Entomology

21. GENERAL ENTOMOLOGY.—Fundamental facts and principles of insect life, principles of control, characteristics of the orders and families, and the relations of insects to plants and animals. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. DIRKS

22. FOREST ENTOMOLOGY.—Principles of insect life with special reference to shade and forest trees. Structure, metamorphosis, classification,

and methods of control. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. DIRKS

24. TAXONOMY OF INSECTS, I.—Methods of collecting, preparing, and mounting insects; principles of insect classification; practice in use of keys for the identification of common insects. Prerequisite, Course 21 or 22. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. DIRKS

26. AQUATIC ENTOMOLOGY.—Principles of insect life with reference to aquatic insects. Classification, identification, life histories, and importance of aquatic insects. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. DIRKS

40. APICULTURE.—A practical course in the care of bees. The honey-bee, its activities and habits; races of bees; diseases and enemies; and the production and marketing of honey. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. DIRKS

46. ADVANCED FOREST ENTOMOLOGY.—An intensive study of insects that are destructive to shade and forest trees and to forest products. Prerequisite, Course 21 or 22. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. DIRKS

49. ECONOMIC ENTOMOLOGY.—An intensive study of the important insects of the orchard, garden, and farm; their life histories and habits, injuries, and methods of control. Prerequisite, Course 21 or 22. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. DIRKS

51. MORPHOLOGY OF INSECTS.—An introduction to the principles of insect morphology. Prerequisite, Course 21 or 22. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. DIRKS

52. TAXONOMY OF INSECTS, II.—Principles of wing venation; classification of the lepidoptera, diptera, and hymenoptera. Prerequisite, Course 51. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* MR. DIRKS

Problem Courses

47. 48. PROBLEMS IN BOTANY OR ENTOMOLOGY.—Open to juniors and seniors who have special interest and qualification in botany or entomology. The approval of the head of the department must be obtained before registering for this work. *Credit, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

103. 104. PROBLEMS IN GENETICS.—*Credit, arranged.* MR. STEINMETZ

105. 106. PROBLEMS IN ENTOMOLOGY.—*Credit, arranged.* MR. DIRKS

107. 108. PROBLEMS IN BOTANY.—*Credit, arranged.* MR. STEINMETZ

FORESTRY

PROFESSOR DEMERITT; ASSOCIATE PROFESSOR ALDOUS; ASSOCIATE PROFESSOR GOODSPEED; ASSOCIATE PROFESSOR ASHMAN; ASSISTANT PROFESSOR CHAPMAN; ASSISTANT PROFESSOR SWANSON; MR. BAKER

1. ELEMENTS OF FORESTRY.—Importance and scope of the field of forestry, general methods of cutting and reforestation applicable in different regions in the United States. Designed as a beginning course for foresters and a cultural course for others. Required of freshmen majoring in Forestry, and open to other students. *Two hours a week. Two credit hours.*

MR. DEMERITT

2. ELEMENTS OF FORESTRY.—A continuation of Course 1, required of freshmen majoring in Forestry and open to other students. Prerequisite, Course 1. *Two hours a week. Two credit hours.* MR. DEMERITT

3. LOGGING.—The lumber industry in the United States considered from an economic standpoint; an account of logging methods in different forest regions. Textbook and lectures. Forestry sophomores only. *Two hours a week. Two credit hours.* MR. CHAPMAN

4. ADMINISTRATION AND PROTECTION.—Problems in the administration of national, state, and private forest enterprises. Forest improvements, including trails, telephone lines, and look-out towers. Forest fire control. *Four hours a week. Four credit hours.* MR. DEMERITT

5. FOREST MENSURATION.—Theory and application of measurements of logs, trees, and stands of timber. Classroom, *two hours a week.* Field work, **three hours a week. Three credit hours.* MR. DEMERITT, MR. CHAPMAN

6. FOREST MENSURATION.—A continuation of Course 5. Theory and application of measurements of growth and yield. Classroom, *two hours a week;* field work, **three hours a week. Three credit hours.*

MR. DEMERITT, MR. CHAPMAN

7. LUMBER MANUFACTURE.—Milling and marketing problems of the lumber industry in America. Forestry seniors only. First half of semester. *Four hours a week. Two credit hours.* MR. CHAPMAN

8. SILVICS.—The life factors determining the character and form of forest vegetation. The development of forest types and the silvical characteristics of stands. Prerequisites, Botany 33, 34. Forestry juniors only. *Two hours a week. Two credit hours.* MR. ASHMAN

9. WOOD PRESERVATION.—Durability and seasoning of native woods; preservatives in commercial use; and methods of operation and equipment of

preserving plants. Special attention given to posts, ties, poles, paving-blocks, and structural timbers. Prerequisites, Botany 33, 34, and 35. First half of semester. *Two hours a week. One credit hour.* MR. CHAPMAN

10. NURSERY PRACTICE.—To be taken in connection with Course 12. The study of forest-tree seed and seedlings; planting and transplanting in the State Forest Nursery; practice in field planting. Nursery management. Last nine weeks. **Six hours a week. One credit hour.*

MR. ASHMAN, MR. GOODSPEED

11. FOREST RECREATION.—Recreation from the viewpoint of the forester. Recreation planning in state and national forests and parks and on private estates. Brief consideration of game management in forestry. Summer camp administration. Forestry juniors and seniors only. *One hour a week. One credit hour.* MR. ASHMAN

12. SEEDING AND PLANTING.—Artificial regeneration and afforestation, in the practice of forestry. Forest nursery management. *Two hours a week. Two credit hours.* MR. ASHMAN

13. FOREST PROTECTION.—Forest enemies with particular reference to fire, insects, and fungi. General methods for the control of forest fires and the administration of fire-fighting organizations. *Two hours a week. Two credit hours.* MR. CHAPMAN

14. FOREST PRODUCTS.—Forest products other than logs and lumber, such as pulpwood, veneers, shingles, lath, tight and slack cooperage, hoops and headings, excelsior, vehicle woods, spool stock, turpentine, tannin, gums, syrups, dye-woods, and charcoal. Methods of utilization, markets, and values. *Two hours a week. Two credit hours.* MR. CHAPMAN

16. WOOD TECHNOLOGY.—Identification and classification of the commercial woods of the United States based on simple lens inspection; the technical qualities of various species and their uses in the arts and trades. Prerequisite, Botany 33, 34, and 35. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. GOODSPEED

18. PREPARATION AND DRAFTING OF MAPS.—Instruction in the correct drafting, preparation, and coloring of maps. The use of accepted conventional signs and symbols in mapping, and preparation of maps for reports and summaries of field surveys. Prerequisite, Drafting 1, 2a. **Three hours a week. One credit hour.* MR. CHAPMAN

20. WOODLOT FORESTRY.—General principles of forestry, with special reference and application to farm woodlands, particularly in this region. Lectures and textbook work in elementary systems of cutting, estimating, protection, and reforestation. Especially for agricultural students. Open to all students. *Two hours a week. Two credit hours.* MR. CHAPMAN

22. MAPPING.—Field and office work in the preparation of forest property maps with special reference to type mapping for forest cover, game escape cover, and food cover. Classroom, *one hour a week.* Field work, **six hours a week. Three credit hours.* MR. BAKER

24. GAME FOOD AND COVER PLANTING.—Artificial regeneration and transplanting of trees and shrubs with particular reference to those having a value as game food and cover. Classroom, *one hour a week.* Field work, **three hours a week. Two credit hours.* MR. BAKER

43. 44. SPECIAL PROBLEMS.—Original investigation in advanced forestry work, the subject to be chosen after consultation with the departmental staff. Open to high ranking juniors and seniors. *Credit, arranged.*
MEMBERS OF THE DEPARTMENTAL STAFF

47-48. ORIENTATION.—A course of lectures for freshmen in Forestry designed to acquaint them with the fields open to forestry and wild life graduates. *One hour a week. No credit.* MR. DEMERITT

51. REGIONAL SILVICULTURE.—Applied systems of silviculture and management considered in relation to commercially important timber species and forest types in the United States; the application of thinnings; methods of natural reproduction; silvicultural methods. First half-semester. *Four hours a week. Two credit hours.* MR. ASHMAN

52. POLICY AND ECONOMICS.—Character, extent, and distribution of forest resources, national, state, private, and foreign. Relation of government, corporations, and individuals to forest resources and applied forest management. Brief discussion of state and Federal forest laws. *Four hours a week. Four credit hours.* MR. GOODSPEED

53. FOREST FINANCE.—Forest valuation and statics. The appraisal of values of stands of timber. Determination of returns from forests under management. Damage appraisal. First half-semester. Classroom, *three hours a week.* Laboratory, †*two hours a week. Two credit hours.*
MR. GOODSPEED

55. FOREST MANAGEMENT.—Theory of the normal forest; forest organization and regulation for a sustained yield. Calculations for and preparation of a forest-management plan. First half-semester. *Four hours a week. Two credit hours.* MR. GOODSPEED

57. GAME MANAGEMENT.—Production of sustained annual crops of wild game for recreational use. Field studies in game census work, artificial restocking, and ecological factors controlling game populations. First half semester. Classroom, *four hours a week. Two credit hours.* MR. SWANSON

101. 102. Forest Mensuration Problems.—*Credit, arranged.*
Mr. Demeritt

103. 104. Forest Management Problems.—*Credit, arranged.*
Mr. Demeritt, Mr. Goodspeed

105. 106. Game Management Problems.—*Credit, arranged.*
Mr. Aldous

107. 108. Research Methods.—*Credit, arranged.* Mr. Aldous

Courses in Camp

35s. Silviculture.—Sophomore year only. Character and form of forest vegetation and recommended cutting operations for different kinds of forest types. To secure high quality natural regeneration. Studies to be conducted on areas now operated by Government and private owners. *Sixteen hours a week. Two credit hours.*
Members of the Departmental Staff

37s. Forest Mensuration.—Sophomore year only. Practical field work in the measurement of logs, individual trees and large stands of timber. Forestry instruments. **Eight hours a week. One credit hour.*
Members of the Departmental Staff

39s. Forest Products.—Sophomore year only. Study of forest products other than logs and lumber with particular reference to their manufacture. **Eight hours a week. One credit hour.*
Members of the Departmental Staff

41. Practice of Forestry.—Forestry seniors only. Business principles involved in the management of a forest area including the preparation of a complete working plan. Topographic maps and detailed estimate of stands are included in the plan. Second half-semester. **Forty-eight hours a week. Nine credit hours.*
Mr. Ashman, Mr. Goodspeed

45s. General Ecology.—Course covering the field study of flora and fauna in relation to environment. Field work, **twenty-four hours a week. Three credit hours.*
Members of the Departmental Staff

HOME ECONOMICS

Professor Greene; Professor Sweetman; Assistant Professor Musgrave; Assistant Professor Haile; Mrs. Wells; Mrs. Stewart; Miss Gould; Mrs. Snyder

1. Introduction to Home Economics.—A study of the problems of adjustment to college life and vocational preparation. A survey of the pro-

fessional fields open to Home Economics trained women. *Three hours a week. Three credit hours.* MISS GREENE, MRS. STEWART

2. CLOTHING SELECTION PROBLEMS.—Study of factors involved in selection of clothing in good taste. Economic aspects including budgets and detailed study of fabrics and fibers. Prerequisite, Course 3. *Three hours a week. Three credit hours.* MRS. WELLS

3. DESIGN.—A first course in art expression. The principles of design as they may be applied to house decoration, costume design, advertising and related subjects. Some technique in the use of color, line, balance, rhythm, emphasis, and proportion is acquired in the laboratory. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.*

MISS MUSGRAVE

4. HOUSE FURNISHING.—Artistic and practical objectives to be attained in furnishing a house. Furniture and materials used. Problems in furnishing plans. Prerequisite, Course 3. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MISS MUSGRAVE

5. FOODS.—Methods of food preparation with study of effects on nutritive quality, palatability, digestibility, sanitary quality, and economy. Laboratory work in preparation of different types of foods and experimental study of effects of variations in procedure. Prerequisite, one year of chemistry; for Home Economics students, Chemistry 5 and Biochemistry 4. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.*

MRS. SWEETMAN, MRS. SNYDER

6. FOODS.—A continuation of Course 5, including problems in food buying and the planning and serving of meals. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.*

MRS. SWEETMAN, MRS. SNYDER

7; 8. CLOTHING CONSTRUCTION PROBLEMS.—A laboratory course dealing with the techniques of construction of garments. Simple drafting, the use of patterns, fitting and finishes are included. Prerequisite, Course 3. †*Four hours a week. Two credit hours.* MRS. WELLS

10. HOME CARE OF THE SICK.—A study of the principles and practices of care of the sick. Designed to train the student to recognize common symptoms of departure from normal health, to give routine home care in minor illnesses and to carry out intelligently the directions of a physician. Prerequisite, Bacteriology 3. *One credit hour.* MISS GREENE

11. HOUSEHOLD MANAGEMENT.—Homemaking as a profession. Standards and objectives for household management in the provision of health, contentment, and development of family members. Techniques of manage-

ment of time and energy to contribute to securing the values of family life. Open to senior Home Economics students only. *Two or three hours a week. Two or three credit hours.* MISS HAILE

14. THE PRE-SCHOOL CHILD.—A study of factors involved in physical, mental, social, and emotional development of children. Opportunity for observing and guiding activities of pre-school children provided in a play school. Open to junior Home Economics students only. Classroom and laboratory as arranged. *Three credit hours.* MISS HAILE

15. MILLINERY.—Principles of design and color applied to choice of hats. Consideration of materials used and making hats in the prevailing fashion. Open to Home Economics juniors and seniors. †*Two hours a week. One credit hour.* MISS MUSGRAVE

17 (18). APPLIED DESIGN.—Application of design principles to problems in textiles including block printing, batik, decorative needlework, and hand weaving. Prerequisite, Course 3. †*Four hours a week. Two credit hours.* MISS MUSGRAVE

21 (22). HOUSEHOLD ADMINISTRATION.—Students organize and execute activities of the home management house. The course aims to develop attitudes essential to satisfactory group living and managerial ability by coördinating previous training in conditions approximating home life. Opportunity for marketing, planning, preparing and serving meals, care of a young child, money management, care of the house, and informal home entertaining. Seniors, or juniors by permission. *Three credit hours.* MISS HAILE

24. FAMILY MEALS.—Food selection and preparation with emphasis on nutritional adequacy, moderate cost, and scientific methods of preparation. Arts students above Freshman rank only. Classroom, *one hour a week;* laboratory, †*hours a week. Three credit hours.*

MRS. SWEETMAN, MRS. SNYDER

25. ECONOMICS OF THE HOUSEHOLD.—Planning personal and family expenditures with emphasis on problems of the consumer-buyer. For Arts and Sciences students above freshman rank only. *Two hours a week. Two credit hours.* MISS GREENE

26. THE CHILD IN THE HOME.—Functions of the home as an environment for human development; factors involved in the growth and development of children. For Arts students. Corresponds in part to Course 14. Laboratory consists of observation of play school. Classroom and laboratory as arranged. *Three credit hours.* MISS HAILE

28. CAMP FEEDING.—Problems involved in selection, purchase, and preparation of food for camp groups. Open only to Forestry juniors by per-

mission of the head of the Forestry Department. Classroom, *one hour a week;* laboratory, **three hours a week. Two credit hours.* MRS. STEWART

51. ADVANCED CLOTHING.—Clothing economics including study of fashion, retailing, and standards for consumer buying of clothing. Laboratory problems in selecting and constructing tailored coats and children's clothing. Prerequisites, Courses 7 and 8. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.*

MISS MUSGRAVE, MRS. WELLS

52a. ADVANCED CLOTHING AND COSTUME DESIGN.—A continuation of Course 51. Application of design principles in line, color, dark and light, and texture to costumes for the individual. Draping on the dress form and constructing informal and formal silk dresses. †*Six hours a week. Three credit hours.*

MISS MUSGRAVE

52b. ADVANCED CLOTHING AND COSTUME DESIGN.—Costume design as in Course 52a. Laboratory study of commercial patterns, pattern construction, fitting abnormal figures, and the making of formal and informal silk dresses. †*Six hours a week. Three credit hours.*

MISS MUSGRAVE, MRS. WELLS

53 (54). FAMILY ECONOMIC PROBLEMS.—A study of family cash and real income as related to American standards of living. Household budgets. Consumer buyer problems. Prerequisite or parallel, Course 11. *Two or three hours a week. Two or three credit hours.*

MISS GREENE

56. HOME ECONOMICS EDUCATION.—Principles of teaching as applied to junior and senior high-school home economics. Aims: selection of subject matter, and choice of method as exemplified in current literature, courses of study, and textbooks. Organization problems, equipment, budget, and classroom management are included. *Three hours a week. Three credit hours.*

MISS GREENE

57. 58. THESIS.—Undergraduate thesis in any one of the fields of home economics. *Credit, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

59. 60, a-j. SPECIAL PROBLEMS.—Individual problems in the various fields of home economics, arranged to enable students to extend their command of subject matter, or develop techniques according to individual interests and needs. A student may register more than one for the course, but for no more than three hours in any one subdivision. *One to three credit hours,* in each subdivision.

59a. 60a. NUTRITION
59b. 60b. FOODS
59c. 60c. CLOTHING
59d. 60d. DESIGN

59e. 60e. History of Costume
59f. 60f. House Planning and Decoration
59g. 60g. Child Development
59h. 60h. Household Management
59i. 60i. Home Economics Education
59j. 60j. Institutional Management

Members of the Departmental Staff

61. History of Costume.—A survey of the development of costume of men and women from the peoples of antiquity, through various periods of European history to the present time. Lectures, reading and collection of illustrations. *One hour a week. One credit hour.* Miss Musgrave

63 (64). Nutrition.—Principles involved in normal nutrition at all ages. Prerequisite, Biochemistry 5, or Chemistry 51-52. *Two or three hours a week. Two or three credit hours.* Mrs. Sweetman

65 (66). Dietetics.—Calculation and preparation of dietaries for normal individuals. Parallel or prerequisite, Course 63. †*Four hours a week. Two credit hours.* Mrs. Snyder

67 (68). Nutrition in Abnormal Conditions.—A study of the principles involved in adjusting diets in such diseases or other abnormal conditions as are benefited by variations from normal diets. Laboratory consists of demonstrations of nutritional deficiencies in animals. Prerequisite, Course 63. *Two or three credit hours.* Mrs. Sweetman

69 (70). Survey Examination.—A comprehensive examination to test the student's command of home economics and related subject matter, and her ability to integrate, organize, and present it orally and in writing. Preparation for the examination consists of the making and use of outlines and bibliographies in the major divisions of the field. Required of senior Home Economics students. *Credit, arranged.*

Members of the Departmental Staff

71 (72). Supervised Teaching.—Directed teaching in home economics. Students teach classes in the junior and senior high school at Brewer. Open to senior Home Economics students only. *Three credit hours.*

Miss Gould

81 (82). Institutional Management (Foods).—Problems involved in the feeding of groups on a commercial basis, as menu planning, the application of food-preparation principles to large-quantity cookery, use of large scale equipment, quality standards. A faculty dining room is operated as a laboratory for the course. Prerequisite, Course 5, 6. Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.* Mrs. Stewart

83 (84). Advanced Institutional Management (Foods).—Management and administrative problems including personnel, equipment, and cost studies. Laboratory as in Course 81 (82) with emphasis on managerial responsibilities. Lecture open only to seniors. Prerequisite, Course 81 (82). Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.* Mrs. Stewart

101 (102). Advanced Nutrition.—Methods of research in nutrition and recent advances in the field. Prerequisite, Course 63. Not offered every year. *Two or three credit hours, as arranged.* Mrs. Sweetman

103 (104). Advanced Foods.—Methods of research in food preparation and recent advances in the field. Prerequisites, Course 6 and Biochemistry 5. Not offered every year. *Two or three credit hours, as arranged.*
Mrs. Sweetman

HORTICULTURE

Professor Waring; Assistant Professor Clapp;
Assistant Professor Riley

General Courses

2. General Horticulture.—An introductory treatment of practices and related principles basic to the production of fruits, vegetables, and flowers, and to ornamental horticulture. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Waring

4. Plant Propagation.—Methods of propagating plants. Current literature on propagation is reviewed. A report on methods applicable to a particular branch of horticulture is required. †*Four hours a week. Two credit hours.* Not given in 1937-38. Mr. Clapp

11. 12. Problems in Horticulture.—Open to upperclass students who manifest special interest and the capacity for individual effort. The consent of the instructor must be obtained in each case before registration. *Credit, arranged.* These courses may be repeated for credit.
Members of the Departmental Staff

14. Summer Practice.—Supervised practice in the gardens, greenhouses, nurseries, and orchards of the College. Short trips to specialized farms and florists' establishments may be included, and a trip of approximately four days' duration to inspect horticultural enterprises and estates in Maine and other New England states. Four weeks, close of spring semester, junior year. *Four credit hours.* Members of the Departmental Staff

51. 52. SEMINAR.—Critical reviews of literature in selected or assigned horticultural subjects, preparation of abstracts and papers, classroom presentation and discussion. Staff members and invited guests participate. *One or two hours a week* by arrangement. *Credit, arranged.* MR. WARING

54. PLANT PROPAGATION.—A continuation of Course 4 into more advanced phases of the subject. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* Given in 1937-38 and alternate years.
MR. CLAPP

Pomology

1. FRUIT HANDLING.—The commercial apple industry and its methods in Maine and competing regions, with minor attention to other tree fruits. Laboratory exercises include grading and packing and visits to commercial-scale orchards, packing houses, and storage plants. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. WARING

9. FRUIT JUDGING.—The selection of fruit, chiefly apples, for exhibition, the identification of varieties, and judging. The intensive training should ordinarily lead to participation in an intercollegiate apple-judging contest. Open to any interested student. **Six hours a week,* first nine weeks. *One credit hour.*
MR. WARING

53. SYSTEMATIC POMOLOGY.—A survey of the species and important cultivated varieties of fruits and nuts, emphasizing botanical status as well as pomological classification, distribution and use. Given in alternate years. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*
MR. WARING

56. ADVANCED POMOLOGY.—An advanced treatment of principles and methods involved in the planting and management of orchards. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Not given in 1937-38.
MR. WARING

Vegetable Gardening

10. SMALL FRUITS.—A consideration of varieties, cultural methods, and handling of such fruits as strawberries, grapes, raspberries, blackberries, and blueberries. *Three hours a week. Three credit hours.* MR. RILEY

20. VEGETABLE GARDENING.—The best commercial practices; and the results of recent experimentation as applied to vegetable gardening. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*
MR. RILEY

21. Vegetable Crops.—Includes harvesting, marketing, storage, and systematic study of types and varieties of vegetables; also care of vegetables for seed production. Prerequisite, Course 20. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Riley

25. Vegetable Forcing.—Culture of vegetables under glass, types of greenhouses, special soil management problems involved, marketing. Prerequisite, Course 20. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Riley

Floriculture and Ornamental Horticulture

3. Trees and Shrubs.—The plant materials used in landscape gardening, emphasizing identification, nomenclature, and the characteristics upon which their special values for the purpose are based. Classroom, *one hour a week;* laboratory, **three hours a week. Two credit hours.* Mr. Clapp

5. Recreational Landscaping.—Materials and principles of landscape design with particular reference to recreational projects and roadside improvement. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Clapp

6. Landscape Gardening.—Principles of landscape design with particular reference to the home grounds. Observational trips to Bangor and Old Town may be required. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Clapp

7. Commercial Floriculture.—Principles underlying the production of flowers under glass; special consideration of methods for important cut-flower crops. One or more half-day trips in the Bangor area may be arranged. Prerequisite, Course 8. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Clapp

8. Home Floriculture.—The culture and care of garden flowers and house plants, and the use of flowers in the home. Open to any student. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Clapp

15. Landscape Gardening.—A continuation of Course 6 treating the development of irregular-surfaced areas, the farmstead, and large tracts; the design of recreational areas; and the professional phases of landscape architecture. A one-day trip to Mt. Desert Island is required. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Clapp

Graduate Courses

101. 102. HORTICULTURAL INVESTIGATIONS.—*Credit, arranged.*
MEMBERS OF THE DEPARTMENTAL STAFF

103. 104. RESEARCH METHODS.—Application of scientific method and equipment to the solution of horticultural problems and preparation of manuscript for publication. *Usually, as arranged, two credit hours.*
MR. WARING

ALL DEPARTMENTS

SUMMER PROJECTS.—A student in the College of Agriculture desiring to carry out a field project during the summer recess under faculty direction may obtain credit for such work providing arrangement is properly made with the major department concerned and the project is successfully carried through to completion. Project work may be conducted during the summer recesses between the sophomore and junior years, and junior and senior years. Sophomore-Junior Project is designated Pj 2 and limited to one hour credit. Junior-Senior Project is designated Pj 4 and may be one, two, or three hours credit. Complete details concerning project work may be obtained from heads of departments in which major curricula are offered.

TWO-YEAR COURSE IN AGRICULTURE

DIRECTOR LORING

First Year—Fall Semester

ANIMAL HUSBANDRY—DAIRY PRODUCTION.—A general survey of the field of dairy production and economic reasons for growth of the dairy industry. Breeds of dairy cattle, and their care, feed, and management. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*
MR. HALL

BUSINESS ARITHMETIC.—A course in arithmetic based on the problems confronting the farmer in his business. *Two hours a week. Two credit hours.*
MR. LORING

ENGLISH.—Part of the time is devoted to a review of grammar and to the principles of effective writing, with attention also to spelling and punctuation. Weekly papers, chiefly expository, are required. *Two hours a week. Two credit hours.*
ENGLISH DEPARTMENT

FARM BOTANY.—Plant structure and tissues in their relation to plant growth and development and to agricultural practices. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. STEINBAUER

FARM CROPS.—Practices in growing crops under field conditions. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. RALEIGH

FORGE WORK.—Forging; welding; tool-steel work. **Three hours a week. One credit hour.* MR. DAVEE

FRUIT HANDLING.—Picking, packing, grading, storing, shipping, and marketing of fruit, particularly the apple. A survey is made of the principal apple producing regions and of the general status of the industry. A small amount of systematic study of fruits and some fruit judging are included. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. RILEY

POULTRY HUSBANDRY.—Origin and development of types, breeds, and varieties of poultry; care, feed, and management; housing, breeding, incubation and brooding; and marketing poultry products. Laboratory practice in judging poultry and eggs, and in grading and packing eggs. Killing, picking, and packing poultry. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. GARDNER

First Year—Spring Semester

CARPENTRY.—Graded exercises in woodworking designed to familiarize the student with tools used in modern woodworking practice and to give him experience in working from dimensioned drawings. †*Four hours a week. Two credit hours.* MR. SWIFT

DAIRY HUSBANDRY—GENERAL DAIRYING.—Milk secretion and composition; testing of milk and milk products; sanitary production and handling of milk from farm to consumer; cream separation; and buttermaking. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. SMITH

ENGLISH.—A continuation of the work of the fall. *Two hours a week. Two credit hours.* ENGLISH DEPARTMENT

FARM ECONOMICS.—An elementary course in the principles of economics as applied to agriculture. The following subjects are considered: development of commercial agriculture, price making forces, production, land policies, farm credit, tariff, taxation, and agricultural organization. *Two hours a week. Two credit hours.* MR. NIEDERFRANK

FRUIT GROWING.—Principles and practices which should be followed in choosing an orchard site, and in the subsequent planting and culture, pest control, and other care leading to the production of profitable crops. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*
MR. RILEY

POULTRY HUSBANDRY.—A continuation of the course given in the fall semester. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*
MR. GARDNER

SOILS AND FERTILIZERS.—Properties, management, and fertilization of soils in relation to fitting them for production of crops. Classroom, *three hours a week;* laboratory, **three hours a week. Four credit hours.* MR. CHUCKA

Second Year—Fall Semester

ANIMAL HUSBANDRY—GENERAL ANIMAL HUSBANDRY.—Breeds, and care, feed, and management of horses, beef cattle, sheep, and swine. Laboratory work in judging horses, sheep, and swine. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. HALL

ANIMAL HUSBANDRY—COMMON DISEASES OF FARM ANIMALS.—A general course including anatomy, physiology, hygiene, and sanitation. Methods for the prevention and control of the common diseases of domestic animals are given special attention. *Three hours a week. Three credit hours.*
MR. WITTER

ENGLISH.—Instruction in practical uses of English, including business correspondence, with as much review of grammar as seems necessary. *Two hours a week. Two credit hours.* ENGLISH DEPARTMENT

FARM ENGINEERING AND MECHANICS.—Running farm lines, laying out drainage systems, and planning farm buildings and conveniences. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.*
MR. SWIFT

FARM INSECTS.—A practical study of insects in their economic relationships to farm plants and farm animals. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. DIRKS

FARM MANAGEMENT.—Factors that affect the profitable operation of the farm as a business unit including size of business; labor efficiency; crop rotation; farm layout, and production costs. Individual farming systems are studied. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. JONES

POULTRY HUSBANDRY—POULTRY MANAGEMENT.—A general consideration of poultry management with especial reference to sanitation and disease. *Two hours a week. Two credit hours.* MR. GARDNER

VEGETABLE GROWING.—Production of vegetables for home use. Important commercial vegetables of New England. Handling of forcers, growing of seedlings, marketing, and other topics are included in as much detail as time will permit. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. RILEY

Second Year—Spring Semester

ANIMAL HUSBANDRY—FEEDING LIVE STOCK.—General principles underlying feeding of live stock; composition and characteristics of feed stuffs; calculating rations; and the best practices in feeding farm animals. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.* MR. HALL

ENGLISH.—A continuation, including reports, abstracts, and oral composition based on agricultural material. *Two hours a week. Two credit hours.* ENGLISH DEPARTMENT

FARM CROPS.—Grass and forage plants, their culture and uses. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. RALEIGH

FARM MACHINERY.—A course given to acquaint the student with the machinery adapted to farm use. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. SWIFT

MARKETING FARM PRODUCTS.—A course dealing with the economic problems in marketing farm products, with particular attention given to marketing Maine products, such as dairy and poultry products, apples, and potatoes. Time is also given to a study of the principles and methods of coöperative marketing. *Three hours a week. Three credit hours.* MR. NIEDERFRANK

FORESTRY.—The general principles of forestry with special reference and application to the farm woodlands, particularly in this region. Lectures and textbook work in elementary systems of cutting, estimating, protection, and reforestation. *Two hours a week. Two credit hours.* MR. CHAPMAN

SMALL FRUIT CULTURE AND PLANT PROPAGATION.—Strawberries, raspberries, blackberries, blueberries, cranberries, grapes, and some other fruits of minor importance in the State. Production and disposal of the crops are considered. Instruction is given in general propagation of plants. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. RILEY

HONORS COURSE

Attention is called to the tutorial honors course which is open to superior students in agriculture and forestry who may desire to supplement their field of concentration by study under individual tutorial guidance. A fuller description of this course is to be found at the beginning of the section, General Courses.

College of Arts and Sciences

PURPOSE

In an age which stresses the utilitarian and so-called practical interests of education, the College of Arts and Sciences reasserts its cultural objectives, its efforts to preserve the best that the past has bequeathed us, and its attempts to enrich and enhance human living. Our time calls preëminently for men and women of critical intelligence, broad and sympathetic understanding of human needs, and determination of purpose. The College of Arts and Sciences seeks, therefore, to train and inspire loyal and competent citizens to meet the demands of the present crisis in history, and to enrich, within the limits of their ability and opportunity, the life of their respective communities.

In addition to the obvious value of the social sciences in meeting contemporary needs the College recognizes as indispensable the disinterested pursuit of knowledge and the free play of the mind in the region of literature and the other arts. It believes that no adequate and enduring human progress can be achieved if any essential part of human nature remains undeveloped.

Specifically, the College of Arts and Sciences conceives its task in terms of the particular needs of the various classes of students whose interest it seeks to serve. It offers, for example, a specific curriculum to those who contemplate entering the professional schools of medicine, dentistry, law, government, business, social work, and the arts. In collaboration with the School of Education, it offers specific training to prospective teachers.

In all cases, however, the College aims both at the production of useful skills and techniques and at the training of men and women who may be able and willing to turn their training toward socially desirable ends.

ADMISSION

The requirements for admission are given in full elsewhere in the catalog. They are practically the same as for other New England colleges and may be met by a four-year preparatory course in a good high school or academy. Graduates of Maine normal schools who are also graduates of an approved high school will receive sophomore standing.

The regular admission requirements will be applied to all students who enter with advanced standing. Students must make up all entrance requirements before registering as juniors. Those who transfer from other colleges must make them up within a year.

GRADUATION REQUIREMENTS

The work in the College of Arts and Sciences leads to the degree of Bachelor of Arts (B.A.). All curricula, beginning with the class of 1940, require the completion of 120 hours exclusive of military training. For students entering before September, 1936, the requirement is 125 hours including military training.

Every candidate for the Bachelor of Arts degree is required to complete a basic course in English, in social science, and in mathematics and natural science. He is also required to elect a foreign language until he has passed a reading test satisfactorily. Seven hours of Military Science are required of all men students. All women students in the college take in their freshman year Elementary Hygiene, for which two credits are given. This work may not be counted toward the fulfillment of the science requirement. In addition, two years' work in Physical Training is required of all students without credit.

Eighteen to twenty-four hours must be completed in the major subject during the last two years. Ninety-five of the hours required for graduation and three fourths of the work in the major subject must be completed with a grade of C or above. If a student transfers from another institution, three fourths of all work done after transferring must be passed with a grade of C or better. Grades below C are not accepted from other institutions.

Students who transfer to this college as sophomores from another college of the University must complete one fourth of the total hours required in the college from which they transferred plus 96 in the College of Arts and Sciences (90 hours for the class of 1940 and succeeding classes); juniors must complete one half of the total hours, plus 63 (60 hours for the class of 1940 and succeeding classes); and seniors three fourths of the total hours, plus 31 (30 hours for the class of 1940 and succeeding classes). They must also have a total of 95 hours of C grade or better. They will be required to do two full years' work in the College of Arts and Sciences before receiving the bachelor's degree, with the exception that students from the College of Technology may transfer after the junior year and be graduated in Arts after one year's work as major students in the Departments of Physics, Chemistry, or Mathematics; and students from the College of Agriculture may similarly transfer and be graduated as majors in the Department of Zoology.

FOREIGN LANGUAGE

If education is to be in any true sense liberal, it is necessary that a student should have living contact with some culture other than his own. He may

gain a sympathetic understanding of another culture through the medium of the language used by its best writers. For this reason every student in the College of Arts and Sciences is required before graduating to demonstrate that he has mastered one foreign language well enough to be able to read and understand it with some ease. It is recommended that the student, unless he has special reasons, continue with a language which he has already studied in high school. If he has settled upon his major subject when he enters the University, he should ascertain the specific language preference in that field. Students entering with three years of French or four years of Latin normally meet the requirement by completing an additional year in either of these languages. In general, whatever the choice, it is expected that the requirement will be met before the beginning of the third year. Courses in language should be taken continuously until the examination has been passed.

THE FIRST TWO YEARS

The first two years of the student's college course constitute a unified period. On the one hand, they are in a very real sense a continuation of his preparatory school training and have the same general purpose of providing him some familiarity with the general streams of human knowledge, a broad and firm foundation of culture, and an adequate background for an understanding and appreciation of the needs of his community as well as competence to participate intelligently in its varied life. On the other hand, the first two years reach out toward the period of concentration with which the last two years are primarily occupied. They are designed to help the student to see his chosen field in perspective, but they also seek to give him the necessary preparation for undertaking the studies of a distinctly advanced nature. In brief the first two years are definitely exploratory. Their objective is dispersion rather than concentration, intelligence over an extended area of knowledge rather than proficiency in one particular region.

With these general principles in mind, freshmen are expected to elect courses from each of the following groups:

I. English. English 1 and English 2 or 18 are definitely required unless the student is admitted by the department to a more advanced course.

II. Foreign Language: Greek, Latin, French, Spanish, German. Students who pass a reading test in a foreign language may be excused from this requirement.

III. Social Studies: American History, Ancient Civilization, European History, and Masterpieces of Art.

IV. Natural Science and Mathematics: The requirements in this division may be satisfied by electing Chemistry 1, 2; Geology 13, 14; Mathe-

matics 1, 3, 6, or 1, 2, 3, or 17, 18, 19, 20, or 3, 17, 18, or 3, 19, 20, or Course 1 in Mathematics and Courses 15, 16 in Astronomy, or Courses 1, 3 in Mathematics and Astronomy 10; Physics 1, 2; Physics 3 and Astronomy 10; Zoology 1 and Botany 2, or Zoology 3, 4.

Military Science and Physical Training are required of all men unless they are physically disqualified. Physical Education and Hygiene must be taken by all women. For those students taking Military Science or Hygiene the maximum registration is fifteen hours *exclusive* of these two subjects; for others the maximum registration is sixteen hours. Individual guidance is given to all freshmen in the selection of their courses.

During the sophomore year the student continues his general interest in exploration, but he naturally becomes more definitely concerned over the selection of his major subject. He should, therefore, add at least two new major fields of learning to those taken during the freshman year. This should insure for him some likelihood of a wise decision regarding his field of concentration because he will have had some experience in at least six different fields. Not more than six hours may normally be taken in one subject in either semester of the sophomore year. At the same time it is frequently wise to take more than one course in a prospective major subject, in order to test one's actual interest and to satisfy preliminary requirements for advanced work.

During the first two years a student must show evidence of ability to pursue upper-division courses successfully. Work of C grade or above will be interpreted as satisfactory. *Students with records consistently below this standard will be advised to withdraw from the University at the end of their sophomore year.*

Throughout the freshman and sophomore years the student is under the general supervision of the Dean of the College.

THE LAST TWO YEARS

At some time during the second semester of the sophomore year, the student, in conference with the Dean, selects his major subject or field of chief academic interest, and outlines with his major adviser a tentative curriculum for his two remaining years. This special field is chosen without reference to departmental boundaries, though it may coincide with some department or special curriculum in the College. The department in which the major subject chiefly falls becomes for administrative purposes the student's major department, and the head of that department is his major instructor. The latter is responsible for the student before the faculty and must approve the student's registration.

At the same time the student selects his major adviser. This is regularly either the major instructor or another member of the department whom he and the student agree upon, subject to the approval ot the Dean. Besides assisting the student in outlining his curriculum, the major adviser also directs his pursuit of it, recommends or approves all changes made in it, and acts as the student's registering officer.

The major curriculum is the nucleus of related courses selected by the student as representing his chief field of interest or major subject. It is restricted to a maximum of twenty-four and a minimum of eighteen hours in the junior and senior years, but it is expected that the remaining courses will be chosen with reference to their affinity with it, except as certain otherwise unrelated courses are recognized as desirable for all students on account of their cultural or practical value. No elementary or introductory courses may be included in the major curriculum, though such exploratory courses may be taken, with the major adviser's approval. In general it is assumed that upperclass students will be engaging themselves with courses of an advanced nature which will toughen their intellectual fibre and furnish a real test of their abilities.

Seniors shall be required to continue work in their major subject through their senior year.

COMPREHENSIVE EXAMINATIONS

In the spring semester of the senior year major students in many of the departments take a comprehensive examination in their major subject. The purpose of this examination is to provide the student with an opportunity to demonstrate his knowledge of the salient features of his general field of study. It aims to make clear the unity of the field as a whole. It seeks definitely to counteract the easy tendency to separate courses from one another. It is, therefore, designed in such a way as to develop perspective and to encourage organization of materials as well as accuracy and range of knowledge. The student is thus able to evaluate his ability in the field of his major interest and to make a smooth transition to his professional and graduate work.

HONORS PROGRAM

A program of Honors Work for the benefit of the superior student has been adopted by the College of Arts and Sciences. The purpose is to encourage exceptional ability by affording unusual opportunities for the exercise of that ability and by rewarding high achievement with appropri-

ate distinction. The opportunities are intended especially to stimulate originality, intellectual curiosity, and resourcefulness, and they require a large measure of self-reliance. The Honors courses do not involve the attending of classes, but are conducted by the tutorial method, according to which the student does his work under the supervision of a tutor, whom he meets in conference at regular intervals for advice and informal discussion. The rewarding distinction, which is the highest offered by the College of Arts and Sciences, is conferred upon the successful completion of all or a sufficient part of the Honors program, in the form of graduation Honors, which are of three grades: Honors, High Honors, Highest Honors.

Application for admission to any course in the Honors program should be made to the Dean of the College of Arts and Sciences. As a rule, a general average of B in the whole of the applicant's previous record will be required for admission, but each applicant will be judged according to his individual merit, especially as regards his possession of the particular qualities, such as initiative and self-reliance, which are deemed essential to success in Honors work.

The Honors program is divided into two parts: (1) Preparation for Honors Work, in the freshman and sophomore years, and (2) Honors Work, in the junior and senior years. Descriptions of the Honors Courses will be found on page 192.

PROFESSIONAL CERTIFICATES FOR TEACHERS

The Professional Secondary Certificate is granted for a period of two years to graduates of the college who have completed not less than eighteen semester hours in education, not more than six semester hours of which may be in the field of psychology. Courses recommended for satisfaction of this requirement are as follows: General Psychology, History of Education, Educational Measurements, Methods of Teaching in Secondary Schools, and Principles of Secondary Education or Practice Teaching. In addition, candidates are expected to complete a major and at least one minor teaching subject. Usual combinations are mathematics and science, French and Latin, English and history, English and French, history and Latin, English and Latin, and French and history. To be satisfactory, all of these required courses, both academic and professional, must be completed with a grade of C or better.

BANGOR THEOLOGICAL SEMINARY

Students in the College of Arts and Sciences have the privilege of registering for courses in Bangor Theological Seminary not to exceed five credit hours per semester, without payment of tuition charges, and a like privilege is extended by the College to students in the Seminary. The courses for which students may register must be approved by the Dean of the College, the President of the Seminary, and the instructor in the subjects concerned in both institutions. Such work may be counted toward graduation; but in order to avoid duplication of credits it is understood that all courses at the University of Maine which have been used by Seminary students for graduation credit at the Seminary, shall be cancelled at the University in case the student is admitted to junior standing as a candidate for the Bachelor of Arts degree.

SPECIMEN CURRICULA

The following outlines of specimen curricula will provide the student with a general idea of the character of preparation recommended for various professions. They are suggestive and tentative rather than fixed or prescribed. The student's own interests and aptitudes will naturally determine to some extent his choice of subjects. Though only a few of the more important curricula in the College of Arts and Sciences are here given, there are a large number of others which may be procured by writing to the Dean of the College.

Specimen Major Curriculum for Premedical Studies

FRESHMAN YEAR

Fall Semester			Hrs.	*Spring Semester*			Hrs.
Eh	1	English	3	Eh	2	English	3
*Gm	1	German	4	*Gm	2	German	4
Mt	1	Military Training	1½	Mt	2	Military Training	1½
Pt	1	Physical Education	—	Pt	2	Physical Education	—
†Zo	3	Animal Biology	4	†Zo	4	Animal Biology	4
		Elective in Social Science	3			Elective in Social Science	3

* Two years of a modern foreign language, preferably German, are usually required for medical school admission, and should lead to a reading knowledge of the subject.

† Candidates who plan to enter medical school in two years and those who have a special interest in chemistry should take General Chemistry during the first year, with or without General Zoology. To fulfill the requirements of the American Medical Association, Organic Chemistry and Physics must be taken the second year. These, together with Comparative Anatomy or General Zoology, if the latter was not taken the first year, make a very heavy program. A four-year program leading to a B.A. degree is thus desirable and in most cases necessary. Candidates for admission to medical school should therefore be familiar with the requirements of several medical schools before planning their first-year program.

SOPHOMORE YEAR

Fall Semester	Hrs.	*Spring Semester*	Hrs.
Ch 1a General Chemistry	4	Ch 2a General Chemistry	4
Gm 3 German	3	Gm 4 German (‡Gm 16, Scientific German)	3-2
Ms 1, 3 Trigonometry, College Algebra (or an approved elective)	4	Ms 6 Analytic Geometry (or an approved elective)	4
Mt 3 Military Training	2	Mt 4 Military Training	2
Pt 3 Physical Education	—	Pt 4 Physical Education	—
Zo 15 Comparative Anatomy	4	Zo 16 Comparative Anatomy	4

JUNIOR YEAR

	Hrs.		Hrs.
Ch 51 Organic Chemistry	5	Ch 52 Organic Chemistry	5
Eh 3 History of English Literature (or Eh 7 or an approved elective)	3	Eh 4 History of English Literature (or Eh 8 or an approved elective)	3
Ps 1a General Physics	4	Ps 2a General Physics	4
Py 1 General Psychology	3	Py 2 General Psychology	3

SENIOR YEAR

	Hrs.		Hrs.
Bt 45 Genetics (or Social Science)	3	Ch 40 Quantitative Analysis	4
Ch 31 Qualitative Analysis	5	Elective (preferably Social Science)	3-5
Zo 37 Physiology	4	Zo 18 Vertebrate Embryology	4
Zo 41 Histology	3	Zo 38 Physiology	4

‡ With the permission of the German Department.

Specimen Major Curriculum for Pre-Legal Studies

FRESHMAN YEAR

Fall Semester		Hrs.	*Spring Semester*		Hrs.
Eh 1	Freshman Composition	3	Eh 2	Freshman Composition	3
Hy 3	United States History	3	Hy 4	United States History	3
Mt 1	Military Training	1½	Mt 2	Military Training	1½
Pt 1	Physical Education	—	Pt 2	Physical Education	—
	Foreign language	3-4		Foreign language	3-4
	Natural Science	4		Natural Science	4

SOPHOMORE YEAR

		Hrs.			Hrs.
Eh 7	Second-Year Composition	3	Eh 8	Second-Yr. Composition	3
Es 1a	Principles of Economics	3	Es 2a	Principles of Economics	3
Gt 31	American Government	3	Gt 32	American Government	3
Mt 3	Military Training	2	Mt 4	Military Training	2
Pt 3	Physical Education	—	Pt 4	Physical Education	—
	Elective (*Language or science)	3-4		Elective (*Language or science)	3-4

JUNIOR YEAR

		Hrs.			Hrs.
Eh 3	History of English Literature	3	Eh 4	History of English Literature	3
Hy 17	History of England	3	Hy 18	History of England	3
Pl 3	History of Philosophy (or Es 9, Accounting)	3	Pl 4	History of Philosophy (or Es 10, Accounting)	3
Sy 1	Principles of Sociology	3	Sy 2	Principles of Sociology	3
	Elective (Hy 5, 67 or Gt 35, 51, 73)	3		Elective (Hy 6, 68 or Gt 34, 36, 74)	3

* To be continued until the student has passed his language test.

SENIOR YEAR

Fall Semester		Hrs.	*Spring Semester*		Hrs.
Eh 57	Shakespeare	3	Eh 58	Shakespeare	3
Es 9	Accounting (or Pl 3, History of Philosophy)	3	Es 10	Accounting (or Pl 4, History of Philosophy)	3
Es 71	Public Finance	3	Gt 100	Political Theory	3
Gt 99	Politica! Theory	3	Pb 4	Debating	2
Pb 3a	Public Speaking	2	Pl 8	Logic	2
	Elective (History or Government)	3		Elective (History or Government)	3

Specimen Major Curriculum for Business Studies

FRESHMAN YEAR

		Hrs.			Hrs.
Eh 1	Freshman Composition	3	Eh 2	Freshman Composition	3
Hy 3	United States History	3	Hy 4	United States History	3
Mt 1	Military Training	1½	Mt 2	Military Training	1½
Pt 1	Physical Training	—	Pt 2	Physical Training	—
Zo 3	Animal Biology, (or Ms 1, 3, Trigonometry and College Algebra, Ch 1a, General Chemistry, Ps 1a, General Physics)	4	Zo 4	Animal Biology (or Ms 6, Analytic Geometry, Ch 2a, General Chemistry, Ps 2a, General Physics)	4

SOPHOMORE YEAR

		Hrs.			Hrs.
Es 1a	Principles of Economics	3	Es 2a	Principles of Economics	3
Es 9	Accounting	3	Es 10	Accounting	3
Mt 3	Military Training	2	Mt 4	Military Training	2
Pt 3	Physical Training	—	Pt 4	Physical Training	—
Py 1	General Psychology	3	Py 2	General Psychology	3
	*Foreign language (or Eh 3, History of English Literature)	3		*Foreign language (or Eh 4, History of English Literature)	3
			Pb 2	Public Speaking	2

* To be continued until the student has passed his reading test.

JUNIOR YEAR

Fall Semester

		Hrs.
Eh 7	Second-Year Composition	3
Es 51	Corporation Finance	3
Es 53	Money and Banking	3
Gt 31	American Government	3
Ms 17	Mathematical Theory of Investments (or Ms 19, Statistics)	2
	Elective: Sy 1, Principles of Sociology, Hy 17, History of England	3

Spring Semester

		Hrs.
Eh 8	Second-Yr. Composition	3
Es 52	Social Control of Industry	3
Es 54	Investments and Investment Banking	3
Gt 32	American Government	3
Ms 18	Mathematical Theory of Investments (or Ms 20, Statistics)	2
	Elective: Es 60, Social Insurance, Sy 2, Principles of Sociology, Hy 18, History of England	3

SENIOR YEAR

		Hrs.
Es 55	Business Law	3
Es 71	Public Finance	3
Es 91	Development of Economic Thought	2
Gt 35	Principles and Problems of Government (or Gt 51, Public Administration, or Py 75, Social Psychology)	3
Ms 19	Statistics (or Ms 17, Mathematical Theory of Investment)	2

		Hrs.
Es 56	Business Law	3
Es 72	Labor Problems	3
Es 92	Development of Economic Thought	2
Gt 34	Municipal Government and Administration (or Gt 36, European Government)	3
Ms 20	Statistics (or Ms 18, Mathematical Theory of Investment)	2
Pl 10	Ethics	2

Curriculum in Creative Writing or Journalism

FRESHMAN YEAR

Fall Semester	Hrs.	*Spring Semester*	Hrs.
Eh 1 *Freshman Composition* (or Eh 11, Freshman Literature and Composition)	3	Eh 2 *Freshman Composition* (or Eh 12 or 18, Freshman Literature and Composition or Freshman Literature)	3
Hy 5 Survey of Western Europe (or Hy 3, United States History)	3	Hy 6 Survey of Western Europe (or Hy 4, United States History)	3
Foreign language	3-4	*Foreign language*	3-4
Mt 1 *Military Training* (Zo 5, Hygiene, women)	1½-2	Mt 2 *Military Training* or elective	1½-2
Natural Science or *Mathematics*	4	*Natural Science* or *Mathematics*	4
Pt 1 Physical Education	—	Pt 2 Physical Education	—

SOPHOMORE YEAR

	Hrs.		Hrs.
Eh 3 *History of English Literature* (or Eh 43, Chief Writers of America for Eh 11 students)	3	Eh 4 *History of English Literature* (or Eh 44, Chief Writers of America for Eh 12 students)	3
Eh 7 *Second-Year Composition* (Essay)	3	Eh 8 Second-Year Composition (Narrative)	3
Gt 31 American Government	3	Gt 32 American Government	3
Hy 3 or Hy 5, *American or European History*	3	Hy 4 or Hy 6, *American or European History*	3
Mt 3 *Military Training* (or Mc 3, Music Appreciation)	2	Mt 4 *Military Training* (or Pb 2, Public Speaking)	2
Pt 3 Physical Education	—	Pt 4 Physical Education	—
Py 1 General Psychology or *Foreign Language	3	Py 2 General Psychology or *Foreign Language	3

* To be continued until the student has passed his language test.

JUNIOR YEAR

Fall Semester	Hrs.	*Spring Semester*	Hrs.
Eh 23 *News Writing*	3	Eh 24 *News Writing*	3
Eh 45 Contemporary Literature (American) or Eh 43, Chief Writers of America	3	Eh 46 Contemporary Literature (or Eh 44, Chief Writers of America)	3
Es 1a Principles of Economics	3	Es 2a Principles of Economics	3
Hy 67 American Diplomacy	3	Hy 68 American Diplomacy	3
Sy 1 Principles of Sociology	3	Sy 2 Principles of Sociology	3
Electives (Gt 35, Pl 1, Sy 1)	3-4	Electives (Gt 34, Pl 2, Sy 2, Ce 12, Fm 48)	3-4

SENIOR YEAR

	Hrs.		Hrs.
Eh 25 *The Newspaper in the Twentieth Century*	3	Eh 28 *Departmental or Feature Writing* (or Eh 30, *The Country Newspaper*)	3
Eh 57 Shakespeare	3	Eh 58 Shakespeare	3
Es 53 Money and Banking	3	Es 52 Social Control of Industry	3
Electives (as above, or Es 55, 69, or 71)	6	Electives (as above, or Es 56, 60, or 72)	6

Considerable flexibility is permitted as to the election and sequence of courses, except that those in italics should be taken in the years indicated.

Specimen Major Curriculum for Pre-Professional Training in Social Work

FRESHMAN YEAR

		Hrs.			Hrs.
Eh	1 Freshman Composition	3	Eh	2 Freshman Composition	3
	Foreign language	3-4		Foreign language	3-4
Hy	5 Survey of Western Europe	3	Hy	6 Survey of Western Europe	3
Mt	1 Military Training	1½	Mt	2 Military Training	1½
Pe	1 Physical Education	—	Pe	2 Physical Education	—
Zo	3 Animal Biology	4	Zo	4 Animal Biology	4
Zo	5 Hygiene (girls)	2	Pb	2 Public Speaking	2

SOPHOMORE YEAR

Fall Semester		Hrs.	*Spring Semester*		Hrs.
Eh 7	Second-Year Composition	3	Eh 8	Second-Yr. Composition	3
Es 1a	Principles of Economics	3	Es 2a	Principles of Economics	3
Gt 31	American Government	3	Gt 32	American Government	3
Mt 3	Military Training	1½	Mt 4	Military Training	1½
Pe 3	Physical Education	—	Pe 4	Physical Education	—
Py 1	General Psychology	3	Py 2	General Psychology	3
Sy 1	Principles of Sociology	3	Sy 2	Principles of Sociology	3
	*Foreign language			*Foreign language	

JUNIOR YEAR

		Hrs.			Hrs.
Eh 3	History of English Literature	3	Eh 4	History of English Literature	3
Gt 35	Principles and Problems of Government	3	Es 72	Labor Problems	3
Mc 3	Music Appreciation	2	Mc 4	Music Appreciation	2
Pl 3	History of Philosophy (or Py 75, Social Psychology)	3	Pl 4	History of Philosophy	3
Sy 61	Social Pathology (Poverty)	3	Sy 62	Social Pathology (Criminology)	3
Sy 81	Family	3	Sy 20	Intro. to the Field of Social Work	3

SENIOR YEAR

		Hrs.			Hrs.
Es 71	Public Finance	3	Es 60	Social Insurance	3
Gt 51	Public Administration	3	Gt 34	Municipal Government and Administration	3
He 25	Economics of the Household	4	He 26	The Child in the Home	3
Py 71	Abnormal Psychology	3	Py 72	Mental Hygiene	3
Sy 87	Social Evolution and Social Change	2	Sy 88	Population and Race Problems	2
Sy 101	Sociology Seminar	2	Sy 102	Sociology Seminar	2

* Foreign language is to be elected in place of one of the foregoing courses if the reading test has not been passed.

Courses of Instruction

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

Courses numbered 1-50 are for undergraduates only; courses numbered 51-100 are primarily for upperclassmen and graduates; courses numbered above 100 are primarily for graduates.

When a course is offered in the first semester and also repeated in the second, it is designated by two numbers, the second of which is in parenthesis [e.g., 1 (2)].

When a dash is used between the two numbers (e.g., 1-2), both semesters must be taken to obtain credit; when a semi-colon is used (e.g., 1;2), the first semester may be taken by itself, but the second cannot be taken unless the first semester is taken previously; when a period is used (e.g., 1.2), either semester may be taken for credit.

INTRODUCTION TO THE CURRICULUM

The tabular arrangement of courses given on the following page serves to give the student a general view of the academic organization of the College of Arts and Sciences. All graphic representations are to some extent arbitrary and misleading, yet our tabulation may help the student to observe the general outline of academic interests in the College as well as something of the affinity which the various subjects bear to one another. It is obvious at once, for example, that languages and literature belong to one group, but one gains some realization of the inter-relationship of languages and the scope of linguistic study by noting how the ancient languages are followed by the modern languages and these in turn by Comparative Literature and English with its various applications. The importance of arrangement is equally great, if not so readily apparent, in the case of the other divisions. Growing familiarity wth these fields will make it increasingly clear that one subject by its very nature passes inevitably into another. The entering student will do well to study this table in making his first general acquaintance with the curriculum as a whole. The upperclassman will occasionally wish to view his education in a perspective beyond that of his own previous academic experience. It is hoped that this table will act sometimes as a corrective for too specialized training, sometimes as a visual demonstration of the essential unity of all knowledge, sometimes as a device for calling attention to intimate cultural and intellectual relationships.

ARRANGEMENT OF SUBJECTS IN GROUPS

ART HISTORY

PROFESSOR HUDDILSTON

1. 2. MASTERPIECES OF ART.—A general course covering the most distinctive values of art in the great periods, with special regard to architecture as a key to the spirit of the ages. Lectures and interpretations from photographs. Not open to students who have taken Course 3 or 5. *Two hours a week.*

3. RENAISSANCE ART.—A course for students desiring to concentrate on the Italian Renaissance. The work covers the most important painters of the Florentine and Venetian schools. *Three hours a week.*

4. ART IN AMERICA.—A course of lectures on the relation of the fine arts to national culture and spirit. Designed to throw light on the cultural history of the United States and to stimulate a broader interest in art appreciation particularly as affecting the public mind and reflecting the national spirit. Open to all students except freshmen. *Three hours a week.*

5. GREEK ART.—A course on the understanding and enjoyment of architecture and sculpture as developed by the ancient Greeks. Textbook, lectures, and photographs. *Three hours a week.*

7. CHINESE CULTURE.—A general survey of ancient China's intellectual and aesthetic ideals as reflected in her philosophy, poetry, painting, and pottery. Open to juniors and seniors. *Three hours a week.*

ASTRONOMY

PROFESSOR WILLARD; ASSOCIATE PROFESSOR JORDAN; MR. LAMOREAU; MR. BOWIE

The courses in astronomy aim to meet the demands of students seeking a knowledge of the subject for purposes of general culture, and for technical or professional uses. Opportunity is offered for students to acquire such information as will enable them to appreciate more fully the universe in which they live. Courses may be selected which provide instruction in instrumental astronomy and observatory practice.

10. DESCRIPTIVE ASTRONOMY. An elementary course. The textbook is supplemented by informal lectures, illustrated by lantern slides, drawings of celestial objects, and work in the observatory. Open to all students. *Three hours a week.* MR. JORDAN

11. Practical Astronomy.—A course arranged to meet the needs of engineering students, and consisting mainly of problems in the conversion of time, the determination of terrestrial latitudes, and the establishment of meridian lines. Open to students who have taken Mathematics 1 and 3. *Two hours a week* with additional hours for observation.

Mr. Jordan, Mr. Bowie

14. Navigation.—An elementary course dealing primarily with the determination of the position of a ship at sea. The material discussed in the course forms the basis of airplane navigation during long flights. Open to students who have a working knowledge of Trigonometry. *Two hours a week.*

Mr. Jordan

15; 16. General Astronomy.—Designed for students in mathematics and physics and others wishing a more complete treatment of the subject than is possible in Course 10. Recitations, lectures, solution of problems, observations with instruments in the observatory. Open to sophomores, juniors, and seniors who have had Mathematics 1. Given in 1937-38 and alternate years. *Three hours a week.*

Mr. Jordan

59; 60. Practical Astronomy.—The theory and use of the astronomical transit, zenith telescope, and equatorial; accurate determination of time and latitude. Open to students who have taken Mathematics 6, 7, 8, and Astronomy 10 or 15. Given in 1936-37 and alternate years. *Three hours a week.*

Mr. Jordan

BIBLICAL LITERATURE

Professor Huddilston

Bb 1.—The Origin and Growth of the Old Testament.—A brief survey intended to help the student to understand the Old Testament as the finished product of Semitic Culture. Open to all students. *Two hours a week.*

CHEMISTRY

Professor Bradt; Professor Brautlecht; Associate Professor Brann; Associate Professor Jenness; Assistant Professor Otto; Assistant Professor Gilliland; Mr. Osborn; Mr. Bogan; Mr. Tomlin; Mr. Martin; Mr. Thompson

The Department of Chemistry opens to the general student of the liberal arts one of the principal avenues of approach to the understanding of Nature

and of the manifold complexities of life in an advanced industrial society such as ours.

For those students who wish to pass beyond a general appreciation of chemical science and to attain the training necessary for entering one or other of the numerous occupations for which more advanced work in chemistry is prerequisite, the following vocational possibilities are suggested as representative:

a. *Industry and Municipal Service.* Graduates in chemistry are often in demand for non-laboratory positions in industries manufacturing or employing chemicals: positions as research librarians, purchasing agents, secretaries, personnel workers, salesmen, advertisers. They are also employed in laboratory positions as analysts for sewage disposal plants and water works, gas companies, ice plants, and producers of fertilizers, insecticides, drugs, flavors, and many other commodities.

b. *Government Bureaus.* Many arts college graduates trained in chemistry are now holding positions in various government agencies such as the Patent Office, the Bureau of Chemistry, and the Department of Agriculture.

c. *Medicine.* Training in chemistry is prerequisite for entrance to medical and dental schools, and for such positions as those of technicians in hospitals, as well as for most branches of medical research.

d. *Education.* Students interested in the teaching of chemistry in secondary schools can readily qualify for this profession by the satisfactory completion of a program arranged through the coöperation of this department with the School of Education.

Students taking chemistry as a major subject in the College of Arts and Sciences must complete satisfactorily Courses 1b; 2b, 31, 40, 51, 52, 71 and 72. Some biological science is required, also some mathematics and physics.

1a; 2a. General Chemistry.—This course deals with the general principles of the science and the elements of qualitative analysis. Classroom (lectures, discussion and demonstrations), *two hours a week;* laboratory (including recitations), *four hours a week.* One breakage card. *Four credit hours.*

Mr. Bradt and Members of the Departmental Staff

1b; 2b. General Chemistry.—A course similar to Course 1a; 2a, but for students who have indicated an intention to major in Chemistry or Chemical Engineering. Lecture, *two hours a week;* laboratory, *four hours a week.* One breakage card. *Four credit hours.* Equivalent to 1a; 2a. Mr. Osborn

21. 22. Introductory Theoretical Chemistry.—This is an introductory course in the fundamental principles of chemistry designed to prepare students for physical chemistry. It is recommended to majors in Chemistry and to premedical and predental students as well as other students desiring a

second year elective in the Department of Chemistry. Prerequisite, Course 1a; 2a, or 1b; 2b. Classroom, *two hours a week. Two credit hours.*

MR. JENNESS

31. MICRO-QUALITATIVE ANALYSIS.—Systematic theoretical and laboratory study of the fundamental principles of analysis as applied to the common cations and anions. Analysis of unknowns. Microtechnique without use of the microscope. Prerequisite, Course 1a; 2a, or 1b; 2b. Lectures and recitations, *three hours a week to mid-semester and one hour a week thereafter;* laboratory, *eight hours a week.* Two breakage cards. *Five credit hours.*

MR. OTTO

40. QUANTITATIVE ANALYSIS.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrolysis methods. Prerequisite, Course 31. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* MR. OTTO

51; 52. ORGANIC CHEMISTRY.—An introductory course dealing with aliphatic and aromatic compounds. Prerequisite, Course 31 or at least C grades in Courses 1 and 2. Classroom, *three hours a week;* laboratory, *four hours a week.* Two breakage cards. *Five credit hours.*

MR. GILLILAND, MR. OSBORN

55. CONTEMPORARY CHEMISTRY.—A study of contemporary chemists and chemical theory. Prerequisite, Courses 52 and 72. Lecture, *one hour a week. One credit hour.*

MR. GILLILAND

71; 72. PHYSICAL CHEMISTRY.—The detailed study of fundamental principles of chemistry and their application to various fields. Lecture, recitations, and laboratory. Prerequisites, Course 40 and Physics 1, 2. Calculus is very desirable. Classroom, *three hours a week;* laboratory, *four hours a week.* One breakage card. *Five credit hours.* MR. BRANN, MR. TOMLIN

97. 98. METHODS OF TEACHING CHEMISTRY.—A course for prospective teachers of chemistry which includes administration, supervision, costs; laboratory arrangement, equipment, maintenance and supplies; preparation of solutions, demonstrations, lesson plans, testing programs; texts, laboratory manuals; grading and scoring; bibliography. Text, problems, and journal assignments. For juniors, seniors, and graduate students. Prerequisite, Course 1b; 2b, or equivalent. Classroom, *two hours a week. Two credit hours.*

MR. BRAUTLECHT

Other courses in the Department of Chemistry not listed here are described under the College of Technology.

CLASSICS

PROFESSOR CHASE; PROFESSOR HUDDILSTON; ASSISTANT PROFESSOR ANDREWS

Greek

The work in Greek is arranged with the idea of presenting the principal phases of ancient culture. Such courses are offered as will prove serviceable to the student of average interests, who, not having studied the ancient languages in the secondary school, may desire to include in his college course some work bearing on the permanent contributions of early people to the civilization of ancient and modern times.

At present but one year of Greek language is offered; more will be given if there is sufficient demand. Instruction aims at close correlation with the major fields of interest of individual students.

1-2. BEGINNING GREEK.—Progressive development of the ability to read and understand classical Greek. Comprehension of selected and graded passages of Greek is emphasized from the start. The reading of the second semester is determined by the needs and desires of the students. Both semesters must be taken for credit. *Four hours a week.* MR. ANDREWS

3. GREEK LIFE AND CULTURE.—A brief study of important features of the Greek legacy in art, literature, religion, and philosophy. Assigned readings and lectures. *Three hours a week.* MR. HUDDILSTON

4. GREEK RELIGION.—The development of religious thought among the Greeks from Homer down to the period of the Hellenistic philosophies. Lectures and assigned topics and discussions intended to provide an introduction to comparative religion. *Two hours a week.* MR. HUDDILSTON

51. GREEK LITERATURE.—A general survey which does not presuppose any knowledge of the Greek language. While the course includes prose literature as well as poetry, the main attention is given to Homer and writers of the drama; considerable reading is done in English translation. Given in 1936-37 and alternate years. *Three hours a week.* MR. HUDDILSTON

Latin

The courses in Latin are planned with a double purpose—to give some understanding of the best that Rome achieved and to train students for high-school positions as teachers of Latin.

The first purpose is cultural. It introduces students to the forms of classic literature as exemplified by Cicero, Livy, Tacitus, and Pliny in prose, by Terence and Plautus in dramatic art, and by a selection from the masters of lyric poetry. In addition, the courses are planned to give an introduction to the thought of the leading minds at Rome with some appreciation of its permanent value, and a comprehension of the Roman Empire as a milestone in the advance of European civilization.

The courses are also designed to give such knowledge of the Latin language and methods of teaching as would be required of a well-trained secondary-school teacher.

Courses 1, 2, 3, 4 cover the regular high-school curriculum and are given only in case of sufficient demand.

1-2. BEGINNING LATIN.—This course covers the work of the first two years in high school. Students in the College of Arts and Sciences must take both semesters for credit. *Four hours a week.* MR. ANDREWS

3. CICERO.—Selected orations from the greatest of the Roman orators. *Four hours a week.* MR. ANDREWS

4. VERGIL.—Selections from the *Aeneid,* with discussion of its construction and background. *Four hours a week.* MR. ANDREWS

5. LIVY.—Selections from the *History of Rome.* Reading, with discussion of language and Roman history. *Three hours a week.* MR. ANDREWS

6. CICERO AND HORACE.—Reading of the *De Senectute* with some attention to Cicero's religious thought; study of the lyric poetry of Horace. *Three hours a week.* MR. ANDREWS

7. 8. LATIN COMPOSITION.—Development of more accurate understanding of Latin through practice in writing, with stress on grasp of forms and syntax. *One hour a week.* MR. ANDREWS

9. TACITUS.—Reading and discussion of the *Agricola* and the *Germania.* This course involves an introduction to the history of the Roman Empire. *Three hours a week.* MR. CHASE

10. TERENCE AND PLAUTUS.—A study of the development and characteristics of Roman comedy as seen in the *Phormio* of Terence and the *Captivi* and *Trinummus* of Plautus. *Three hours a week.* MR. CHASE

21. 22. LATIN COMPOSITION.—Accurate knowledge of syntax is stressed in the first semester and Latin rhetoric in the second. Either semester is open to students who have completed Latin 7. 8. Essential for prospective teachers. *One hour a week.* MR. CHASE

23. The Younger Pliny.—Life and conditions in the Roman Empire as revealed by the letters of a Roman of the first century. *Three hours a week.* Mr. Chase

24. Horace and Juvenal.—Roman satire and social life as disclosed by the writings of the great satirists. *Three hours a week.* Mr. Chase

41. 42. Roman Private Life.—The manners, customs, social usages, and everyday life of the Romans. This course deals with their essentially human qualities. Discussion, reading and reports. No knowledge of Latin is required, and either semester may be taken for credit. Open to members of the three upper classes. Not given in 1937-1938. *Three hours a week.* Mr. Andrews

51. 52. Teachers' Course.—The objectives, content, and methods of the secondary-school Latin curriculum. Discussion of principles, solution of problems, outside reading, and investigation of special topics. Not given in 1937-1938. *Three hours a week.* Mr. Andrews

57. 58. Roman Philosophy.—Readings from the *De Rerum Natura* of Lucretius and the philosophical writings of Cicero and Seneca. Discussion of the leading schools of ancient philosophy. *Three hours a week.* Mr. Chase

59. 60. Roman Rhetoric and Oratory.—Tacitus, *Dialogus de Oratoribus;* Cicero, selections from the *Brutus* and *De Oratore.* Given in case of adequate demand. *Three hours a week.* Mr. Chase

62. The Latin Language.—A historical study of Latin forms and inflections with a study of early inscriptions. Given in case of adequate demand. *Three hours a week.* Mr. Chase

107. 108. Sanskrit.—Given in case of adequate demand. *Two hours a week.* Mr. Chase

ECONOMICS AND SOCIOLOGY

Professor Ashworth; Dean Allen; Associate Professor Chadbourne; Assistant Professor Kirshen; Assistant Professor Melder; Assistant Professor Lamson; Mr. Knowlton

Economics

It is the purpose of this department to assist the student to an understanding of the way in which society produces and regulates its wealth. The function of money, the relation between capital and labor, questions of public

finance are representative of the sort of problems that distinguish the social science of economics, but its scope includes all that facilitates a broad human understanding of the control of wealth. Thus the study of economics provides a foundation for good citizenship and not merely a technique for business success.

1a. 2a. PRINCIPLES OF ECONOMICS.—A study of the fundamental characteristics and institutions of modern economic society, including such topics as specialization, large scale production, machine industry, competition, credit, foreign trade, foreign exchange, and distribution of wealth; the application of principles to such economic problems as population, labor legislation, transportation, public expenditures, and taxation. *Three hours a week.*

MR. ASHWORTH, MR. ALLEN, MR. KNOWLTON

1b. 2b. PRINCIPLES OF ECONOMICS.—A short course similar to Course 1a, 2a for students in Technology and Agriculture. *Two hours a week.*

MR. MELDER, MR. KNOWLTON

9; 10. ACCOUNTING.—The study and practice of the principles of accounting used in business. Since the course does not presume any knowledge of double-entry bookkeeping, a considerable part of the first semester's work is devoted to fundamental principles. Balance sheets and income statements, depreciation, reserves, sinking funds, partnership, and corporation problems are the principal topics of the second semester. *Three hours a week.*

MR. CHADBOURNE

16. BUSINESS LAW.—A study of the basic legal principles guiding, expanding, and limiting business transactions. The nature of law, the enforcement of law, contracts, agency, and bailments are given special consideration. For juniors and seniors in Technology and Agriculture only. *Three hours a week.*

MR. KIRSHEN

51. CORPORATION FINANCE.—This course treats the corporation in a possible life-cycle of organization, operation, failure, or reorganization. Forms of business organization, corporate securities, intercorporate relations, management and control are considered. Special emphasis is given to the use of securities in distributing corporate funds and control to stockholders, bondholders, and the corporate managers. Juniors and seniors only. *Three hours a week.*

MR. KIRSHEN

52. SOCIAL CONTROL OF INDUSTRY.—This course deals with the extension of government control over business activities for the purpose of social welfare, economic reform, and business recovery. *Three hours a week.*

MR. KNOWLTON

53. Money and Banking.—The monetary and banking systems of the United States and other countries; special emphasis on the relation of banking to business. Juniors and seniors only. *Three hours a week.*

Mr. Chadbourne

54. Investments and Investment Banking.—The course deals with the selection of investments, with a study of the proper types of investments for dependents, the business and professional classes, and institutions. The different types of securities and their relative merits are analyzed. An investigation is also made of the social and practical aspects of the investment banking business. Suggested preparation, Courses 1a, 2a; 51 and 53. Three *hours a week.*

Mr. Chadbourne

55; 56. Business Law.—This course is more advanced than Course 16 and includes, in addition, damages, negotiable instruments, guaranty and suretyship. Juniors and seniors only. *Three hours a week.* Mr. Kirshen

60. Social Insurance.—The development of the main forms of social insurance in the United States and European countries: e.g., unemployment, old age pensions, workmen's compensation, and health. The characteristics of each type of risk and the relative merits of different financial systems. *Three hours a week.* Mr. Ashworth

69. Modern Economic Systems.—A survey of socialism, communism, and fascism. Their organization of agriculture, labor, capital, and trade. Their development, their performance, and their problems as compared with those of the capitalist state. *Three hours a week.* Mr. Knowlton

71. Public Finance.—The following topics will be considered: government activities and government expenditures, taxation and tax systems, budgets and other means of regulating and controlling government spending, and current problems of taxation. Juniors and seniors only. *Three hours a week.* Mr. Ashworth

72. Labor Problems.—A study of problems arising out of the relationships of employers and employees in modern industrial society with special reference to solutions contemplated or achieved through special labor legislation, collective bargaining, and management. Juniors and seniors only. *Three hours a week.* Mr. Melder

73. Labor Problems.—Similar to Course 72. For Technology students. *Three hours a week.* Mr. Melder

76. Transportation.—The economics of transportation in the United States: railway transportation including development, organization, competition, combination, discrimination, financing, valuation, rate making, service, public ownership and operation, State and Federal regulation; highway

transportation; financing construction, maintenance, regulation of motor vehicles; inland water transportation; air transportation. *Three hours a week.* Juniors and seniors only. MR. MELDER

91. DEVELOPMENT OF ECONOMIC THOUGHT.—The course treats the economic ideas developed from early times to the middle of the nineteenth century, with special attention devoted to the mercantilist, physiocratic, classical, nationalist, historical, and socialist schools of political economy. Seniors only. *Two hours a week.* MR. MELDER

92. DEVELOPMENT OF ECONOMIC THOUGHT.—The evolution of economic theory from the middle of the nineteenth century to the present. The Austrian school is studied as an approach to the neo-classical school. Institutionalism and other contemporary developments are investigated with the view of showing their places in relation to certain movements such as the growth of corporations. *Two hours a week.* MR. MELDER

101. 102. ECONOMICS SEMINAR. THE DEPARTMENTAL STAFF

Sociology

The sociology curriculum focuses the student's attention upon social relationships as phenomena capable of objective, critical analysis. This is achieved through study of (1) the structure and function of society—of which the family, social stratification, and social codes are typical; (2) social disorganization—of which crime, poverty and war are typical; and (3) the dynamics of social change.

A student majoring in sociology who intends to enter the field of social work may obtain preprofessional training from the subject matter offered by departments which are closely allied. A specimen curriculum in preprofessional preparation for social work appears on page 164 of this catalog.

1; 2. PRINCIPLES OF SOCIOLOGY.—An introductory course designed to equip the student with a basic knowledge of the structure and functioning of human society. The community, social stratification, unorganized, unspecialized and specialized groups, social codes, relation of the environment to the social order, and the processes of social change are considered. Prerequisite for other courses in sociology. *Three hours a week.* MR. LAMSON

20. INTRODUCTION TO THE FIELD OF SOCIAL WORK.—An examination of the place of public and private social service work in present-day society; historical backgrounds and modern trends. Types of social service work: medical, psychiatric, family case, and group work. Social work as a profession discussed in relation to courts, clinics, schools, hospitals, and social

settlements. Prerequisite, Sy 1; 2. Offered in 1936-37 and alternate years. *Three hours a week.* MR. LAMSON

61. SOCIAL PATHOLOGY: POVERTY AND DEPENDENCY.—A study of typical varieties of social maladjustment. Desertion, divorce, illegitimacy, prostitution, maldistribution of wealth, poverty, public and private methods of poor-relief, unemployment, child labor, old age insecurity, suicide, mental defect, and war are considered. Field trips. *Three hours a week.* Prerequisite, Course 1; 2 or permission of instructor. MR. LAMSON

62. SOCIAL PATHOLOGY: CRIMINOLOGY.—A study of the characteristics, causes, and treatment of crime, including mental, physical, economic, and social factors; case studies of juvenile delinquents and criminals; the relation of race, nationality, age, and sex to crime; theories and forms of punishment and rehabilitation; methods of crime prevention. Field trips. Prerequisite, Course 1; 2 or permission of the instructor. *Three hours a week.* MR. LAMSON

81. THE FAMILY.—A study of the family as a unit of social organization in its primitive, historical, and modern aspects. Consideration of the patriarchal unit, and of the influence of Christianity and the Industrial Revolution upon marriage and the family is followed by an analysis of the modern family including size, basic social and economic conditions, interaction, family tensions, and family disorganization. Prerequisite, Course 1; 2. Given in 1936-37 and alternate years. Three hours a week. MR. LAMSON

87. SOCIAL EVOLUTION AND SOCIAL CHANGE.—Analysis of the evolutionary aspects of associations, institutions, and mores in human society. Consideration of progress, civilization, culture, and theories of social change. Special emphasis upon the fundamental problems of social causation. Given in 1937-38 and alternate years. Prerequisite, Course 1; 2. *Two hours a week.* MR. LAMSON

88. POPULATION AND RACE.—A study of the factors involved in the composition, growth, and control of population; analysis of birth and death rates, influence of standards of living, qualitative and quantitative aspects, and theories of population; special consideration of racial theories and fundamental racial problems. Prerequisite, Course 1; 2 or permission of the instructor. Given in 1937-38 and alternate years. *Two hours a week.* MR. LAMSON

101. 102. SOCIOLOGY SEMINAR.—*Two hours a week.* MR. LAMSON

ENGLISH LITERATURE AND COMPOSITION

PROFESSORS ELLIS, TURNER, AND SMALL; ASSOCIATE PROFESSOR ASHBY: ASSISTANT PROFESSORS SCAMMAN, CROSBY, FLEWELLING, JENSEN, and COGGESHALL; MR. WHITNEY; DR. LEROY; MR. REYNOLDS; MISS SNIDER; MRS. DOVE; MISS HASKELL

Major subjects may be selected in English literature, American literature and history, journalism or creative writing, comparative literature, or dramatics (in conjunction with the Department of Public Speaking). A specimen curriculum in journalism may be found on page 163; others may be had upon request.

Students preparing for library work or employment with publishing houses should become acquainted with modern foreign languages and European and contemporary literature. English majors planning to enter the civil service, social service work, salesmanship, advertising, or professional schools in theology or law should build up a strong supporting minor in the social sciences: economics, government, history, and sociology; and in psychology. For all students majoring in English, an acquaintance with English and American history, philosophy, elementary German, and elementary psychology is recommended.

Students intending to pursue major programs in English should have completed the prerequisite courses Eh 3. 4 and Eh 7 or their equivalent, before the close of their sophomore year. A grade of C or better is expected in Eh 3. 4, and in eighteen hours of the major curriculum.

The departmental comprehensive examinations comprise a written examination in the mechanics of writing, late in the junior year, which serves also as a basis for the selection of senior tutors for freshmen deficient in composition; a critical report on the study of some selected author, at the beginning of the senior year; and an oral and written examination covering the field of English literature and the student's advanced literature courses, in his final semester.

Students pursuing major curricula in other departments who intend to offer English as a second teaching subject in secondary schools should prepare themselves by taking courses Eh 3. 4; 7 or 8; 57 or 58; 43 or 44; and 22 when offered. Eh 67 is also strongly recommended.

Courses in Composition and Rhetoric

1. FRESHMAN COMPOSITION.—An intensive course in expository writing, for students in all colleges. Stress is placed upon correctness, clarity,

and ease of expression and upon the organization of material. Frequent themes and conferences. Required of all freshmen not excused by the Department. *Three hours a week.*

NOTE: Freshmen who are particularly deficient in the fundamentals of grammar, sentence structure, and spelling are required to attend special tutoring groups in addition to the regular work of the course.

MR. TURNER (Chairman) and MEMBERS OF THE DEPARTMENT

2. FRESHMAN COMPOSITION: DESCRIPTION AND NARRATION.—Study and practice in writing, chiefly of descriptive and narrative types, with some further study of exposition. Required of students whose grade in English 1 is below C+; elective for others. *Three hours a week.*

MR. TURNER (Chairman) and MEMBERS OF THE DEPARTMENT

5 (6). TECHNICAL COMPOSITION.—A study of the forms of writing of greatest professional usefulness to engineers, agriculturists, and foresters. The forms of business correspondence, the construction of reports, and preparation of technical papers. *Not open to students in the College of Arts and Sciences. Two hours a week,* fall or spring semester.

MR. SCAMMAN, MR. REYNOLDS

7. 8. SECOND-YEAR COMPOSITION.—In the fall semester the writing of weekly formal and informal essays, with a study of the informal essay in English literature; in the spring, either descriptive and narrative themes, with a study of the short story, or study and practice in specialized expository writing. Recommended for sophomores, especially for those who expect to select a major in the English field. *Three hours a week.*

MR. FLEWELLING (Chairman), MR. ELLIS, MR. ASHBY, MR. WHITNEY, MR. COGGESHALL

11. 12. FRESHMAN LITERATURE AND COMPOSITION (Honors Group).—*See Courses in Literature.*

18. LITERATURE FOR FRESHMEN.—This course includes practice in expository and critical writing. *See Courses in Literature.*

77. 78. CREATIVE WRITING.—An advanced course for students who have shown exceptional interest and ability in some field of writing. The types selected will vary in different years. Not accepted for graduate credit, unless by special permission from the Graduate Faculty. Prerequisite, completion of English 7 or 8 with honor grade. *Three hours a week.*

77a. THE SHORT STORY.—Fall semester. MR. WHITNEY

78b. THE FAMILIAR ESSAY.—Spring semester. MR. WHITNEY

77 (78)c. VERSE WRITING.—Not given in 1937-38. MR. ELLIS

77 (78)d. THE ONE-ACT PLAY.

Courses in Literature

3. 4. HISTORY OF ENGLISH LITERATURE.—A study of English literature to the present time, tracing its historical development and acquainting the student with the chief writers and their work. Readings, recitations, and illustrated lectures. English 3. 4 or 11. 12 is prerequisite for all advanced courses in English literature. *Three hours a week.*

MR. JENSEN (Chairman), MR. TURNER, MR. WHITNEY, MR. REYNOLDS, MR. LEROY

9 (10). MODERN LITERATURE.—A study of specimens of literature of contemporary interest, with the design of cultivating the appreciation and enjoyment of good reading. *Not open to students in Arts and Sciences. Two hours a week,* fall or spring semester.

MR. SCAMMAN (Chairman), MR. REYNOLDS

11. 12. FRESHMAN LITERATURE AND COMPOSITION (Honors Course).—A survey of English literature to the end of the nineteenth century. Practice in theme writing of expository, descriptive, and narrative types. Open only to freshmen excused from English 1. *Three hours a week.*

MISS CROSBY, MR. JENSEN

18. LITERATURE FOR FRESHMEN.—The reading and study of works of literature representing the chief literary types: fiction, essays, poetry, and drama, with several exercises in composition. This course may be elected instead of or in addition to English 2 by freshmen who have completed English 1 with a grade of C+ or better. *Three hours a week.*

MISS CROSBY (Chairman), MR. ASHBY, MR. LEROY

37 (38). TENNYSON AND BROWNING.—Primarily a reading course, with much class discussion. An important aim is the cultivation of a fondness for poetry in the student. *Two hours a week.* MR. TURNER

43 (44). CHIEF WRITERS OF AMERICA.—A study of the principal writers of the United States in the nineteenth century, with some attention to Edwards and Franklin in the eighteenth. *Three hours a week,* fall or spring semester. MR. FLEWELLING

45. 46. CONTEMPORARY LITERATURE.—A study of present-day tendencies and production in the different fields of literature. The fall semester is devoted to contemporary American literature, the spring to British. *Three hours a week.* MR. FLEWELLING

For Courses 51-100, inclusive, Eh 3.4 (or 11.12) is prerequisite, except for Dean's List students whose grades in English have been satisfactory and who have the instructor's permission to enroll. These courses may, with the

approval of the Graduate Faculty, be taken for graduate credit by any qualified student who has already completed satisfactorily a full advanced course in the Department.

53. CHAUCER.—A study of selections from the *Canterbury Tales* and the chief minor poems, stressing the reading of Chaucer as poetry, his literary range and qualities, and the picture of his time given in his works. *Three hours a week.* MISS CROSBY

55. 56. NINETEENTH CENTURY POETRY.—In the first half the poets of the English Romantic Movement—Wordsworth, Coleridge, Byron, Shelley, and Keats—are considered; in the second, those of the Victorian Age, especially Tennyson, Browning, Arnold, and the Pre-Raphaelites. Given in 1937-38 and alternate years. *Three hours a week.* MR. TURNER

57. 58. SHAKESPEARE.—A brief consideration of the English drama prior to Shakespeare, followed by a careful study of several of his most important plays and the reading of others. Attention is given to Elizabethan stage conditions and the dramatic work of Shakespeare's contemporaries. *Three hours a week.* MR. ELLIS, MR. SMALL, MR. LEROY

59. 60. NINETEENTH CENTURY BRITISH PROSE.—A course dealing with the chief prose writers, mainly non-fiction, of the nineteenth century, with especial attention to the ideas conveyed. The authors chiefly emphasized are Lamb, Hazlitt, De Quincey, Carlyle, Macaulay, Arnold, Ruskin, Newman, Huxley, and Stevenson. *Three hours a week.* MR. JENSEN

61. 62. HISTORY OF THE ENGLISH DRAMA.—The development of the drama in England from the miracle and mystery plays through the Elizabethan period. Subsequent tendencies in the Restoration and the eighteenth century, the nineteenth century closet drama, and the revival of the acting play in England and Ireland. Given in 1937-38. *Three hours a week.*
MR. ASHBY

63. ELIZABETHAN LITERATURE.—A pro-seminar course, treating the non-dramatic poetry and prose of the sixteenth century, with particular attention to the poetry of Spenser. Not given in 1936-37. *Three hours a week.*
MR. ASHBY

64. MILTON AND HIS TIME.—A pro-seminar course. Chief emphasis is laid upon the life and work of John Milton, studied against the background of the literature of the seventeenth century to the Restoration of the Stuarts. Given in 1937-38. *Three hours a week.* MR. ASHBY

65. 66. RESTORATION AND EIGHTEENTH CENTURY LITERATURE.—A study of the evolution of neo-classicism and its transition into the early Ro-

mantic Movement, as shown in the poetry, fiction, and drama of the period. Given in 1937-38 and alternate years. *Three hours a week.* MR. ASHBY

71. 72. AMERICAN LITERATURE.—A study of the development and history of American literature, including the political, social, and religious ideas which it reflects. *Three hours a week.* MR. ELLIS

81. 82. THE ENGLISH NOVEL.—This course traces in the first semester the history of the English novel from the medieval prose romances to the death of Scott. Beginning with Dickens and Thackeray, the second semester treats the Victorian novel in considerable detail and makes some study of recent British novelists. Given in 1936-37 and alternate years. *Three hours a week.* MR. TURNER

101. 102. GRADUATE SEMINAR.—Given when there is sufficient demand. Subject and credit vary.

Courses in Journalism

23; 24. NEWS WRITING AND EDITING.—A study of news as defined by the practice of the metropolitan daily. Class discussions and exercises. The mechanics and theory of copy-desk editing. Laws affecting the press: libel, contempt of court, etc. Standards and ethics. Open only to juniors and seniors. Prerequisites: Eh 7; Hy 3. 4 or Gt 31. 32; and Hy 5. 6. *Three hours a week.* MR. COGGESHALL

25. THE NEWSPAPER IN THE TWENTIETH CENTURY.—Special topics in the study of the press as a social institution, such as: the newspaper as a factor in international relations; news as a world commodity, censorship and propaganda, the work of the foreign correspondent; the newspaper as an organ of political opinion during an election campaign; the history of the American press. Open only to seniors. Prerequisites, Eh 23; 24; Hy 54; and Hy 67. 68 or consent of the instructor. *Three hours a week.* MR. COGGESHALL

28. DEPARTMENTAL OR FEATURE WRITING.—Practice in various forms of specialized writing for daily and weekly newspapers, feature sections, etc. Assignments will vary according to the objectives of individual students. Prerequisites, Eh 23; 24 or consent of the instructor. Given in 1936-37 and alternate years. *Three hours a week.* MR. COGGESHALL

30. THE COUNTRY NEWSPAPER.—A study of the administrative, mechanical, and editorial problems of the weekly journal. The course will be associated as far as possible with the weekly newspapers of the State. Prerequisite, Eh 23 or consent of the instructor. Given in 1937-38 and alternate years. *Three hours a week.* MR. COGGESHALL

Courses in Linguistics

51; 52. ANGLO-SAXON.—A study of Anglo-Saxon grammar and reading of easy prose and poetry. Reading of the Anglo-Saxon epic *Beowulf* in the second semester. Lectures on the literature of the Anglo-Saxon period. Given in the fall semester, 1936-37. *Three hours a week.* MR. SMALL

67. HISTORY OF THE ENGLISH LANGUAGE.—The origins of the language; its relation to other languages; the sources and development of the English vocabulary. *Two hours a week.* MR. SMALL

(See also Gm 101. 102; Lt 62; Lt 107. 108.)

Courses in Comparative Literature

Cl 73; 74. LITERARY CRITICISM.—A study of literary practices and standards from Aristotle to the present, including American criticism. The reading not only of works of criticism, but also of some of the recognized masterpieces of Continental literature to which critical principles have been most frequently applied. Given in 1936-37 and alternate years. *Three hours a week.* MR. ASHBY

Cl 75. 76. EUROPEAN LITERATURE.—A survey of European literature from Homer to the present, showing the relationship among the literatures of different epochs and countries. The first semester comes down to the Renaissance; the second, to the present. Eh 76 may not be taken separately except by permission. Foreign language majors may substitute other readings for works treated in their major courses. No knowledge of foreign languages is required. Given in 1937-38 and alternate years. *Three hours a week.*

MR. TURNER

(See also Bb 1; Gk 51; Gm 59 (60); Lt 53. 54.)

Courses in the Teaching of English

22. TEACHING OF ENGLISH IN THE HIGH SCHOOL.—A consideration of the chief problems confronting the teacher of high-school English composition and literature. The presentation of the different literary types; essentials and methods in composition; choice of texts, sequence of literary readings, and other topics. *Two hours a week.* MISS CROSBY

29a. SUPERVISED STUDENT TEACHING OF ENGLISH.—(See School of Education). For approved senior tutors. *Two hours a week, first or second half of fall semester.* One hour credit.

GEOLOGY

These and other courses in Geology are described under the Department of Civil Engineering in the College of Technology.

Ce 12. Economic Geography.—Deals with the principles of geography, especially applied to the common economic products, treating their distribution, characteristics, and uses. *Three hours a week. Three credit hours.*
Mr. Chase

Ce 13. Physical Geology.—Introduction to general dynamical geology, covering the materials, agents, and processes of geology. *Three hours a week. Three credit hours.* Mr. Chase

Ce 14. Historical Geology.—A review of the Earth's history, its past land distribution, mountain revolution, rocks, climates, and living forms. *Three hours a week. Three credit hours.* Mr. Chase

GERMAN

Professor Drummond; Associate Professor Klein;
Assistant Professor Miles

The Department of German offers the student an opportunity to become acquainted with the great literature of a foreign nation.

In addition to its cultural worth German has a great practical value for students who intend to do research work in literature, history, economics, philosophy and especially in the natural sciences, since a great deal of scientific literature is written in German.

Special courses, too, are offered for those students who desire to obtain a good writing and speaking knowledge of German.

1-2. First-Year German.—A course for beginners. Grammar, composition, translation, conversation. Credit is not given for less than a year's work to students in the College of Arts and Sciences. *Four hours a week.*
Mr. Drummond, Mr. Klein, Mr. Miles

3. 4. Short Story.—For students who have had Course 1-2 or the equivalent. Translation, composition, grammar review. *Three hours a week.*
Mr. Drummond, Mr. Miles

5. 6. The Drama.—For students who have had Course 3. 4 or the equivalent. A study of the German drama including selections from such eighteenth and nineteenth century writers as Lessing, Schiller, Hebbel, Kleist, Hauptmann. Lectures and discussion. *Three hours a week.* Mr. Drummond

7. 8. THE NOVEL.—For students who have had Course 5. 6 or the equivalent. Critical reading of novels by such authors as Goethe, Meyer, Ludwig, and Sudermann. Lectures and essays. *Three hours a week.*
MR. KLEIN

9. TEACHERS' COURSE.—For those who intend to teach German. Discussion of methods of teaching, classroom work, the value of different texts, preparation of the lesson, pronunciation, word-derivation, historical grammar. *Two hours a week.* MR. KLEIN

11. 12. RAPID READING COURSE.—For students who have had Course 3. 4, and have not passed the reading test. *Two hours a week.* MR. MILES

13. 14. ELEMENTARY GERMAN COMPOSITION AND CONVERSATION.—For students who have had Course 1-2 or the equivalent. *Two hours a week.*
MR. MILES

15. 16. SCIENTIFIC GERMAN.—Open only to students whose previous study of German will enable them to read scientific German with profit. *Two hours a week.* MR. KLEIN

17. 18. ADVANCED GERMAN CONVERSATION AND COMPOSITION.—For students who have had Course 13. 14. *Two hours a week.* MR. KLEIN

19-20. GERMAN FOR CHEMISTS.—A beginning course in German for students in the Colleges of Agriculture and Technology, and for students in the College of Arts and Sciences who intend to major in Chemistry. The reading matter is chiefly in chemical German with incidental stress upon grammar. *Three hours a week.* MR. KLEIN

21; 22. GERMAN FOR CHEMISTS.—Continuation of Gm 19-20, which is prerequisite. Should be taken by students who take Gm 19-20. Not to be offered until 1938-39. *Three hours a week.* MR. KLEIN

The following courses are given when there is sufficient demand.

51. 52. STUDIES IN EIGHTEENTH CENTURY LITERATURE.—Special attention is given to the life and works of Klopstock, Lessing, Wieland, Goethe, and Schiller. Critical study of assigned works, lectures, and discussions. *Two hours a week.* MR. DRUMMOND

53. 54. GOETHE.—Lectures on the life and work of Goethe, with a critical study of Faust. *Two hours a week.* MR. DRUMMOND

55. 56. STUDIES IN NINETEENTH CENTURY LITERATURE.—The various literary movements of the nineteenth century; lectures, discussions, outside reading. *Two hours a week.* MR. KLEIN

57. 58. SEMINAR.—A study of some special topic in German literature. *Two hours a week.* MR. DRUMMOND, MR. KLEIN

59 (60). HISTORY OF GERMAN LITERATURE.—Lectures in German, outlining the history of German literature. Recitations, outside reading. *Two hours a week*, fall or spring semester. MR. DRUMMOND

The department is also prepared to give, when there is sufficient demand, the following courses: 61. 62. EARLY NEW HIGH GERMAN; 101. 102. GOTHIC: INTRODUCTION TO THE STUDY OF GERMANIC PHILOLOGY; 103. 104. OLD HIGH GERMAN; 105. 106. MIDDLE HIGH GERMAN.

HISTORY AND GOVERNMENT

ASSOCIATE PROFESSORS DOW, WHITMORE, and WILSON;
ASSISTANT PROFESSOR MORROW; ACTING ASSISTANT
PROFESSOR ROHR; MR. MCREYNOLDS

Coöperating member of the Department:
DR. HUDDILSTON, Professor of Ancient Civilization

History

History includes in one continuous narrative the story of mankind so far as it is known. Courses offered by the Department of History and Government are limited to selected periods which seem significant for the present generation. History is more than "past politics"—it includes economic, social, intellectual, artistic, and scientific events. It deals with ages, races, and social movements, attempting to interpret its materials in such a way as to throw light on our present complex civilization and the future course of events.

Courses numbered under eleven are open to freshmen; those numbered above fifty are not open to freshmen or sophomores except by special permission from the head of the Department.

Major Students. Students majoring in History or Government are expected to complete at least eighteen hours of work in approved courses. Courses Hy 1-6, 21, 22, Gt 31, 32 do not count as major courses under ordinary circumstances.

For the purposes of the major, the courses of the Department will be considered in three divisions or fields of specialization: (1) European History, (2) American History, (3) Government.

Having chosen his field of specialization, the student takes at least two approved courses (four semesters) in that division. Students who expect to specialize in European or American History should complete Hy 3. 4 and

Hy 5. 6 by the close of their sophomore year. Those who expect to specialize in Government, or History and Government, should complete Gt 31. 32 and Hy 3. 4 or Hy 5. 6 by the close of their second year. Principles of Economics and Sociology are strongly recommended for prospective majors in History and Government.

Teacher Training. Students in the School of Education or College of Arts and Sciences who expect to offer History as a teaching subject should take Courses 3, 4, 5, 6, and six hours of advanced work previously approved by the head of the Department. Grades should be C or better in all courses. Many teachers are called upon to teach Civics, Citizenship, or Current Events courses, and consequently, Gt 31. 32 (or 36) is advised for this purpose. Subjects commonly combined with History for teaching purposes are English, French, Latin, science, or mathematics.

1. 2. Ancient Civilization.—A study of the achievements of the Greeks and Romans in laying the foundations of Western life and thought with some attention to Egyptian and Eastern civilization as the background of classical culture. An important part of the course lies in the emphasis that is given to the Greek thought and Roman rule in the midst of which Christianity sprang up. Readings, lectures, and notebook. *Three hours a week.* Mr. Huddilston

3. 4. United States History.—From the organization of the new government in 1789 to recent years. The work will cover such topics as the development of democracy, growth of the West, slavery and sectionalism, the Civil War, reconstruction, the making of modern America, industrialization, and imperialism. *Three hours a week.* Mr. Whitmore

5; 6. Survey of Western Europe.—This course is designed to show how modern Europe and its civilization came into existence. The work will include such subjects as the history of the Church, the medieval empire, the growth of towns, evolution of the Western State System, the expansion of Europe, cultural and economic changes, and the World War. *Three hours a week.* Miss Wilson, Mr. Morrow

17. 18. History of England.—From earliest times to the present. The political aspects are emphasized, with some attention to social and economic factors. Stress is placed upon the development of parliamentary government and the evolution of modern England and the British Commonwealth of Nations. *Three hours a week.* Mr. McReynolds

21 (22). Current World Problems.—A course designed for those who wish to be intelligently informed on world affairs, but do not make history their major subject. Lectures and discussions on outstanding problems of

history, government, and politics. Open to all students in the University except freshmen. *Two hours a week.* MR. MCREYNOLDS

53. THE FRENCH REVOLUTION.—An analysis of the "Age of Enlightenment" forms an introduction to the study of the destruction of the Old Regime, the achievements of the Constituent Assembly, the conflicts of the Convention, the Terror, and the reaction of Thermidor. The rise of Napoleon, the founding of the Empire and its collapse are studied in relation to their permanent effect upon the modern world. Prerequisite, Course 5. 6. *Three hours a week.* MISS WILSON

54. EUROPE SINCE 1870.—The causes of the World War are sought in a study of nationalism, imperialism, and the international anarchy which these engendered. A study of the treaties of 1919 and their effects is a part of a brief survey of current European problems. Prerequisite, Course 5, 6. *Three hours a week.* MISS WILSON

55. 56. ANCIENT HISTORY.—The work of the first semester centers on those nations of the Near East whose civilization culminated before 500 B.C., such as Assyria and Babylonia. Special attention is given to the contributions of Egyptian, Babylonian, Hittite, and Cretan cultures. The second semester follows the Mediterranean passing in review important factors in Phoenician, Greek, and Roman history. Investigation of assigned topics, special reports, and discussions. Open only to history majors except on arrangement with the instructor. *Three hours a week.* MR. HUDDILSTON

57. AMERICAN COLONIAL HISTORY, 1607-1688.—The founding and the political, social, and economic development of the colonies in the seventeenth century. English colonial policy of the Commonwealth and the Restoration periods. Permission of the instructor required. *Two hours a week.* MR. WHITMORE

58. AMERICAN COLONIAL HISTORY, 1689-1789.—A study of the development of the colonies in the eighteenth century, including their western expansion, imperial relations, intercolonial relations, development of self-government. Emphasis is placed on the remote and immediate causes and the results of the American Revolution. Permission of the instructor required. *Two hours a week.* MR. WHITMORE

59. 60. ECONOMIC AND SOCIAL HISTORY OF THE UNITED STATES.—A study of economic and social movements in the United States from the colonial period to the present. Included are such topics as colonial production and commerce; agricultural development in the South and West; commerce, labor, and the farmer in the machine age. Prerequisite, six hours of history or economics. *Three hours a week.* MR. MCREYNOLDS

62. Maritime History of the United States.—Ships and trade from Colonial days to the present, with emphasis on shipbuilding and shipping in New England, New York, and Maryland. The following topics are illustrative: famous ships and ship builders; evolution from wood to iron and steel ships; California and the clippers; the effect of the Civil War and the World War on our merchant marine. Permission of the instructor required. *Two hours a week.* Mr. Whitmore

67. 68. American Diplomacy.—The relations of the United States to the outside world. Such policies will be examined as the Monroe Doctrine, Pan-Americanism, and the "Open Door." Attention will be paid to our attitude toward the acquisition of territory, arbitration, limitation of armaments, and the League of Nations. Prerequisite, Course 3. 4, or 31. *Three hours a week.* Mr. Morrow

77. 78. The Middle Ages.—A more advanced study of the period from 500 to 1500 than is undertaken in Course 5, 6. Special emphasis will be given to a study of medieval institutions and to social and economic matters. The Byzantine empire, Slavic Europe, and the westward advance of the Asiatic peoples will be studied as an introduction to modern problems in the Near East. Prerequisite, Course 5. *Three hours a week.* Miss Wilson

79. 80. Cultural and Intellectual History of Europe, 400-1500.—This course follows the declines and advances of civilization from the end of the Roman period to the beginning of modern times. Such subjects will be considered as the science, religion, and philosophy of the transition period; contacts with Mohammedan civilization; the scientific renaissance; the rise of universities; art and architecture; and humanism and the Italian renaissance. Prerequisite, Course 5. *Three hours a week.* Miss Wilson

81. 82. The Far East.—An account of the culture, history, politics, and international relations of China and Japan, leading to an appraisal of the present situation in the Far East. Special attention is given to Russian and American policy in Asia and the problems created by Japan's promotion of a "Monroe Doctrine" for Asia. Prerequisite, six hours of history. *Three hours a week.* Mr. McReynolds

101. 102. Seminar.

64. Canadian History will be given in case of sufficient demand.

Government

The study of government, or political science, covers the activities of governing agencies from towns and cities to international bodies. It is concerned with the origin and development of political institutions and their

social effects, and with the possibilities for improvement. As the activities of present-day governments are almost countless and affect the citizen at every moment, political science is closely related to all the social sciences, especially to economics, sociology, and psychology. Like other social studies, it is deeply rooted in history.

The primary purpose of instruction in government is to train college students for active and intelligent citizenship. Those who do not enter public life themselves will be able as citizens to help raise the level of governmental efficiency.

Major Students. See requirements for major under History.

Public Service Training. With the rapid expansion of government agencies and services there has come an added need for public servants with basic training in government and administration. A large proportion of the public hold elective or administrative offices at some time during their careers. Opportunities for trained men and women in public service are increasing. This is especially true of such fields as city management, health administration, public welfare, and financial administration. Advanced technical or professional training is required for many positions, but basic undergraduate training in government is valuable in all instances. A broad viewpoint and cultural background can be attained at the same time, which will be useful in any occupation entered.

Specimen Curricula have been prepared in the following subjects and are obtainable from the Dean of the College of Arts and Sciences:

Pre-legal Training
Foreign Service
Public Administration

31. 32. AMERICAN GOVERNMENT.—A course dealing with the national, state, and local governments and the functioning of the American party system. The historical development and practical operation of political institutions will be viewed in their relation to present problems of a legislative, judicial or executive nature. Course 31. 32 (or 31. 36) is prerequisite for all other courses in government unless otherwise specified. *Three hours a week.*
MR. ROHR

34. MUNICIPAL GOVERNMENT AND ADMINISTRATION.—A survey of the governmental structure and functions of American municipalities, and a careful analysis of existing conditions. Special study is given to administrative problems arising from such functions as police, education, charities and correction, finance, public works, and city planning and zoning. Prerequisite, Course 31. 32 (or 31. 36). *Three hours a week.* MR. ROHR

35. Principles and Problems of Government.—A general introduction to the study of political science, and of the important theories respecting the nature, origin, form, and purposes of the state and government. Such topics will be treated as sovereignty, law, constitutions, the executive, the judiciary, and public opinion. Prerequisite, Course 31. 32 (or 31. 36). *Three hours a week.* Mr. Dow

36. European Government.—A study of governments, political parties, and current problems in the leading nations of Europe, such as Great Britain, France, Germany, Italy, and Russia. Prerequisite, Course 31. *Three hours a week.* Mr. Rohr

51; 52. Public Administration.—The practical problems of administration in the modern state. The development of administration; principles of departmental organization and control; administrative law; public relations; personnel; financial administration. Lectures, laboratory, and field trips to governmental agencies. Prerequisite, Course 31. 32 (or 31. 36). *Three hours a week.* Mr. Dow

73, 74. International Relations.—A study of the fundamental realities which underlie international relations, and of the rules which govern them, with illustrative material taken from recent and current events and policies. Prerequisite, six hours of history or government. *Three hours a week.* Mr. Morrow

101. 102. Seminar.

The following courses will be given in case of sufficient demand:—83. 84. The American Constitution; 87. 88. International Law; 99. 100. Political Theory.

HONORS COURSES

Freshman Year

Gh 46. Freshman Tutorial Readings.—The purpose of this course is to assist the freshman in discovering his special interests and aptitudes. The tutor will seek to further this purpose by informal questioning and discussion and by the assignment of appropriate reading. Given only in the spring semester. *Two credit hours.*

Sophomore Year

Gh 47. 48. General Reading.—This course is designed to make the student acquainted with some of the great books of the world—that is to say,

readable books of established reputation, particularly those which have figured prominently in the history of occidental culture. These may be of all types, and be concerned with a great variety of subjects, scientific as well as literary. The reading will be confined in the main to a prescribed list, but this list will be extensive enough to allow the student abundant freedom of choice and sufficient opportunity to indulge his special interests. *Three credit hours.*

Junior Year

Gc 49. 50. TUTORIAL HONORS.—This general course when elected by students in the College of Arts and Sciences may be used in one of three ways: (1) for the pursuit of some subject outside of the student's major field, (2) for a continuation of the Honors reading program of the freshman and sophomore years, or (3) for the pursuit of some subject in the student's major field in preparation for the Major Honors course of the senior year. Application for admission to this course should be made to Dean Chase as well as to Dean Allen. For a description of the general course see page 275. *Two credit hours.*

Senior Year

Gh 53; 54. MAJOR HONORS.—This course is the culmination of the Honors program. Coming at the close of this program, it is expected to afford evidence of the extent to which the student has profited by Honors work, and to offer him an opportunity to manifest the qualities that this work is intended to develop. It requires him to make an intensive study of some special subject within his major field and to embody the results of this study in a substantial thesis. Both semesters are needed for this undertaking. *Three credit hours.*

MATHEMATICS

PROFESSORS HART AND WILLARD; ASSOCIATE PROFESSORS BRYAN AND JORDAN; ASSISTANT PROFESSOR LUCAS; MR. STEWART; MR. LAMOREAU; MR. KIMBALL; MR. BOWIE; MISS COPE

The function of the Department of Mathematics is two-fold. On the one hand the Department offers courses to students who are interested in mathematics as a preparation for research and the profession of teaching. It prepares such students to undertake graduate study in mathematics or to teach the subject in the secondary school. The Department also supplies

adequate mathematical foundation for students in the College of Arts and Sciences who are interested in the application of mathematics to the study of the physical, biological, and social sciences.

On the other hand it acts as a service department for the Colleges of Technology and Agriculture. In this capacity it furnishes the students of those colleges with sufficient training in mathematics to enable them to carry forward successfully their technical studies.

Students whose major subject is mathematics are required to take Courses 1, 2 (unless offered for admission), 3, 5, 6, 7, 8, and to elect other courses to a total of not more than forty hours. At least twelve hours must be chosen from courses in mathematics numbered 50 or above, and Astronomy 15, 16, 59, and 60. Mechanics 51 and 52 may be substituted for ten hours of the above group. Astronomy 11 may be taken as a mathematics elective. Students majoring in mathematics who intend to teach are advised to elect Courses 19, 20, 26, 63, and 64 as well as several courses in physics.

1. Trigonometry.—The trigonometric functions, radian measure, functions of two or more angles, logarithms, trigonometric equations, inverse functions, solution of right and oblique triangles. *Two hours a week.*

Mr. Willard, Mr. Bryan, Mr. Jordan, Mr. Lucas, Mr. Stewart, Mr. Kimball, Mr. Bowie

2. Solid Geometry.—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. Open to all freshmen who have not offered solid geometry for admission. *Three hours a week.*

Mr. Bowie

3. College Algebra.—A brief review of radicals, the theory of exponents, logarithms, quadratic equations, the binomial theorem, determinants, theory of equations. *Two hours a week.*

Mr. Willard, Mr. Bryan, Mr. Jordan, Mr. Lucas, Mr. Stewart, Mr. Kimball, Mr. Bowie

5. Advanced Algebra.—Topics in college algebra not covered in Course 3. Open to students who have taken Courses 1 and 3, and to freshmen with especially good high-school preparation. *Three hours a week.*

Mr. Willard

6. Analytic Geometry.—The point, line, circle, and conic sections; higher plane curves; elements of solid analytic geometry. Open to students who have had Courses 1 and 3; the equivalent of Course 2 is desirable. *Four hours a week.*

Mr. Willard, Mr. Bryan, Mr. Jordan, Mr. Lucas, Mr. Stewart, Mr. Kimball, Mr. Bowie, Miss Cope

7. Differential Calculus.—Differentiation of the elementary forms of algebraic and transcendental functions, successive differentiation, differentials, rates, maxima and minima, expansion of functions, series. Open to students who have taken Courses 1, 3, and 6. *Five hours a week.*

Mr. Willard, Mr. Bryan, Mr. Jordan, Mr. Kimball, Mr. Bowie

8. Integral Calculus.—A continuation of Course 7. Integration of the elementary forms; integration as a summation; various methods of integration. Applications of differential and integral calculus. *Five hours a week.*

Mr. Willard, Mr. Bryan, Mr. Stewart, Mr. Kimball, Mr. Bowie

9; 10. Trigonometry and Its Applications.—A course in trigonometry given to freshmen in Forestry. This course is similar to Course 1 but is more extensive and contains more applications. *Two hours a week.*

Mr. Stewart, Mr. Kimball, Miss Cope

13. Spherical Trigonometry.—An elementary course with problems and applications to spherical astronomy. Given in 1937-38 and alternate years. *Two hours a week.* Mr. Kimball

17; 18. Mathematical Theory of Investment.—A study of interest, discount, annuities, amortization, the valuation of bonds, sinking funds and depreciation, building and loan associations; also the theory of probability and its application to life annuities and life insurance. Throughout the course numerous problems are solved to illustrate the theory and to fix the principles involved. *Two hours a week.* Mr. Stewart

19; 20. Statistics.—The various topics in statistics will be introduced by illustrative material from the fields of economics, business and public administration, and applied science. The course is designed to enable the general student critically to evaluate and understand the preparation, presentation, and interpretation of statistical material. *Two hours a week.* Mr. Bryan

26. College Geometry.—An elementary course in modern synthetic geometry. The nine-point circle, harmonic section, poles and polars, Ceva's theorem, Menelaus's theorem are among the topics considered. Emphasis is placed on the solution of original exercises. *Three hours a week.* Mr. Lucas

51. Advanced Analytic Geometry.—Review of the fundamentals of Course 6; advanced theory of the conic sections; the general equation of the second degree in two variables; transformation of coördinates; polar coördinates; higher plane curves. Given in 1936-37 and alternate years. *Three hours a week.* Mr. Lucas

52. Solid Analytic Geometry.—An introductory course. Among the topics considered are coördinates in three-dimensional space; lines and planes;

types, classification, and properties of quadric surfaces; transformation of coördinates. Given in 1936-37 and alternate years. *Three hours a week.*
MR. LUCAS

53; 54. ADVANCED CALCULUS.—Continuation of Course 7; 8. Partial differentiation and its applications; application of calculus to solid geometry; series, including power series and Fourier series; double and triple integration, line integrals; complex numbers, hyperbolic functions. *Three hours a week.*
MR. LUCAS

55. DIFFERENTIAL EQUATIONS.—A course in the solution of ordinary differential equations and their applications. Emphasis is laid on the methods used in solving equations of the common types. Open to students who have taken Course 7; 8. *Three hours a week.* MR. WILLARD

61. HISTORY OF MATHEMATICS.—A chronological survey of the important developments in mathematics from the beginnings of the subject to the present time. Lectures, reference studies, and recitation. Prerequisites, Courses 1, 3, 6, 7. Courses 2, 8, 26 and a reading knowledge of French and German are desirable. In the case of experienced teachers, certain of the above prerequisites may be waived. Given in 1936-37 and alternate years. *Three hours a week.* MR. BRYAN

63; 64. TEACHERS COURSE IN MATHEMATICS.—A study of the kind of mathematics suitable for the secondary school from the point of view of modern mathematics. Through conference, students who so desire may make a study of the teaching of college mathematics. Prerequisites, Courses 1, 3, 6, 7. In the case of experienced teachers, certain of the above prerequisites may be waived. Given in 1937-38. *Three hours a week.* MR. BRYAN

68. THEORY OF NUMBERS.—A study of the elements of the theory of algebraic numbers. The discussions will consider the divisibility of integers, congruences, and quadratic residues. Admission by consent of the instructor. Given in 1936-37 and alternate years. *Three hours a week.* MR. BRYAN

The department is also prepared to give the following courses, which may be offered when there is sufficient demand: 65. THEORY OF EQUATIONS; 66. MODERN PROJECTIVE GEOMETRY; 71; 72. MODERN HIGHER ALGEBRA; 73; 74. ADVANCED STATISTICS; 101. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE; 102. ELLIPTIC FUNCTIONS; 105. VECTOR ANALYSIS; 109. CELESTIAL MECHANICS; 110. HYDRODYNAMICS; 115. THEORY OF FUNCTIONS OF REAL VARIABLES; 116. FOURIER'S SERIES; 117. THEORY OF SUBSTITUTION GROUPS AND OF ALGEBRAIC FIELDS; 118. THEORY OF TRANSFORMATION GROUPS (LIE THEORY); 119; 120. DIFFERENTIAL GEOMETRY.

MUSIC

Professor Sprague

The music curriculum is formulated with the general objective of contributing toward a well-rounded college education. The primary aim of all the offerings of the Department of Music—aesthetic, theoretical, and applied—is to promote a constantly widening acquaintance with the literature of music. The courses all move toward this end: the aesthetic provide a listening survey of comparative epochs and "schools"; the theoretical lead to a more exhaustive and detailed working knowledge, through analysis and composition; the applied, both in individual and ensemble performance, give the creative product its living realization.

Although the purpose of instrumental and vocal instruction is not to make professional musicions but rather to open to the student a broader grasp of the significance of great music, the University recognizes its obligation to offer those who enter college with some mastery of technique an opportunity to maintain and further advance this acquirement.

3. 4. Music Appreciation.—The masterpieces of music analyzed and interpreted, with a consideration of period tendencies and historical positions of composers. The evolution of form from the folk-song through the symphony. Lectures, illustrations, prescribed readings, reports. No prerequisites. *Two hours a week.*

5; 6. Introductory Harmony.—A study of the fundamental structure of music composition, specifically of the conditions under which tones sound together and move in combination. Prerequisite, a knowledge of notation. *Two hours a week.*

7; 8. Advanced Harmony.—Supplementary to Course 5; 6 and a continuation of the more advanced problems of tone combination. Harmonic analysis, including a brief survey of modernistic tendencies. Given in 1937-38 and alternate years. *Two hours a week.*

9; 10. Counterpoint.—The art of combining melodies, a correlative with Harmony as the material of composition. Analysis of masterworks. Composition projects. Prerequisite, Course 5, 6. Given in 1936-37 and alternate years. *Two hours a week.*

11. 12. Music in the Nineteenth Century.—Romanticism in musical art, particularly as reflected in the symphonic poem and Wagnerian music drama. Analysis of masterworks. Prescribed readings and reports. No prerequisite. Given in 1937-38 and alternate years. *Two hours a week.*

13. 14. ORCHESTRATION.—A study of the modern symphony orchestra. Analysis of representative works through score-reading, phonographic records, and attendance at concerts. Assigned readings in history and theory. Practical scoring. An assurance of essential preparation is required. Given in 1936-37 and alternate years. *Two hours a week.*

25. 26. CHORUS.—The study and performance of representative choral repertoire, with a consideration of the composers' historical positions and creative aims. An assurance of vocal aptitude is required. *Two hours a week. One hour credit.*

27. 28. ORCHESTRA.—A program in orchestral ensemble, generally of symphonic order, similar to that of Course 25. 26. An assurance of instrumental aptitude is required. *Two hours a week. One hour credit.*

51. INTERPRETATION AND CONDUCTING.—A consideration of the problems of organization, time-beating, program-building, and interpretation in both choral and instrumental ensemble. Prerequisite, an assurance of aptitude and membership in the University band, chorus, or orchestra. *One hour a week.*

BAND is listed under Military Science and Tactics, Course 11. 12.

Applied Courses

The University provides applied music instruction through an affiliation with the Northern Conservatory of Music in Bangor. For economy and convenience to the student, instruction in these courses is given on the campus if a sufficient number register for a course.

A maximum of eight semester hours of credit is allowed for applied music. Repetition of these courses is therefore permitted, with the requisite variation and progress in technical and literary material; but whatever number of hours is credited must be paralleled by at least an equal number of hours in music theory and aesthetics. The University endeavors to provide adequate practice opportunity for students who desire to take applied courses without credit.

VIOLIN, PIANO, ORGAN, VOICE.—Private lessons at periods to be arranged. One hour lesson weekly, $45.00 the semester. *One credit hour.* One-half hour lesson weekly, $22.50 the semester. *One-half credit hour.*

INSTRUMENTAL AND VOCAL ENSEMBLE.—Group lessons at periods to be arranged. One hour lesson weekly. Fee, duet, $22.50 per person the semester; trio, $15.00 per person the semester; quartet, $11.25 per person the semester. *One-half credit hour* in each case.

To meet further demands, instruction in the various orchestral instruments can be provided on a similar basis.

The practice requirements are two hours daily for six days each week for hour lessons, one hour for half-hour lessons. The semester is fifteen weeks for applied music study. Practice facilities are provided on the campus.

For the use of the University instruments, practice fees are charged as follows for a daily practice hour: Piano, $2.50 a semester; Organ, $5.00 a semester.

PHILOSOPHY

PROFESSOR LEVINSON

Philosophy is the systematic attempt to think our way to the solution of those problems that arise when we ask such general questions as those concerning the meaning of the world, the origin and destiny of human life, its standards and values, the sources and limits of our genuine knowledge, the principles that underlie valid reasoning, and the sources and significance of the sense of beauty. While philosophy is ordinarily approached directly by way of the history of man's attempt to solve these problems (see Pl 3; 4), or through a study of the principal problems or types of philosophy (see Pl 5. 6), opportunity is offered to various classes of students to approach it from the standpoint of their work in other fields (see Pl 1; 2; 11. 12).

1; 2. INTRODUCTION TO LIBERAL ARTS.†—A preface to liberal education, primarily for freshmen in the College of Arts and Sciences. The primary objective is the attainment of a clear and inclusive pre-view of the community of arts and sciences, their present scope, inter-relations, and major applications to the modern world. Given in collaboration with members of the various departments of the college. *Three hours a week.*

3; 4. HISTORICAL INTRODUCTION TO PHILOSOPHY.—An approach to philosophy through a first hand acquaintance with its literature. Reading and interpretation of selections from the philosophical classics of the western world, from Plato to William James. Given in 1937-38 and alternate years. *Three hours a week.*

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† This course, while designed for the general student in the College of Arts and Sciences, is especially recommended to the attention of all prospective majors in philosophy and in education.

5. 6. Personal Philosophy.—A constructive criticism of the student's body of beliefs in the light of an analytical survey of the principal types of philosophy, with a view to the tentative formulation by the student of his own philosophic creed. Designed as an alternative to Course 3, 4, but open by consent of the instructor to students who have taken either of these courses. Given in 1936-37 and alternate years. *Three hours a week.*

8. Logic.—Part one of the course analyzes the principles that govern the passage of the mind from premises to conclusions; following the recent trend, this analysis is developed in a language of symbols analogous to those employed in algebra. Part two deals with the methods of reasoning characteristic of modern natural and social science. Given in 1936-37 and alternate years. *Two hours a week.*

10. Ethics.—An historical survey of various conceptions of the ends of life: tribal morality, the Greek view of life, Christianity, the ethics of evolution. The course concludes with a discussion of some of the ethical problems of our contemporary social order. Given in 1937-38 and alternate years. *Three hours a week.*

11. 12. Topics in Philosophy.—This course is restricted to a limited number of properly qualified upperclassmen, whose needs in philosophy are not satisfied by any of the other courses offered by the Department. Topics associated with the student's major subject will be studied through tutorial conferences, assigned readings, and reports. No work in philosophy is prerequisite. *Two or three hours a week.*

101. 102. Seminar.—An individually arranged program of tutorial instruction for students offering twelve hours of work in the Department, or the equivalent.

PHYSICS

Professor Fitch; Associate Professor Crofutt; Assistant Professor Bennett; Dr. Larsen; Mr. Morris

Physics is concerned primarily with energy and its transformations. The courses in this department are designed to lead the student to a clearer understanding of these transformations as they affect our modern life. They seek to explain the basis upon which our highly mechanized contemporary civilization rests.

1a; 2a. General Physics.—This course is designed as an introductory course in Physics for the general student. It is intended for premedical and predental students and those who desire to satisfy the science requirement

in the College of Arts and Sciences. *Two lectures, one recitation, and one two-hour laboratory a week. Four credit hours.* MR. BENNETT, MR. LARSEN

1b; 2b. GENERAL PHYSICS.—This course covers the fundamental relations in mechanics, sound, heat, electricity, magnetism, and light. It meets the requirements of the College of Technology. It is recommended to all students who wish a working knowledge of the subject of physics. A knowledge of algebra and geometry is prerequisite. *Two lectures, two recitations, and one two-hour laboratory period a week. Five credit hours.*

MR. BENNETT, MR. FITCH, MR. CROFUTT, MR. LARSEN, MR. MORRIS

3. DESCRIPTIVE PHYSICS.—This course treats by demonstrations in the classroom the more important topics in the general field of physics. It is designed to meet the requirements of those students who do not expect to continue with other courses in the department and should appeal to students who are interested primarily in other fields. No previous knowledge of physics is assumed. *Three lecture-demonstrations a week. Three credit hours.*

MR. FITCH

10. METEOROLOGY.—A study of the earth's atmosphere, its composition and movements. Attention is given to atmospheric conditions accompanying changes in weather, a knowledge of which is essential for making weather predictions. A knowledge of high-school physics is assumed. *Three hours a week. Three credit hours.* MR. LARSEN

15. HISTORY OF PHYSICS.—A study of the lives and theories of those men who have contributed most to the advancement of physics. Given in 1936-37 and alternate years. *Three hours a week. Three credit hours.* MR. FITCH

17. 18. INTERMEDIATE PHYSICS.—This course is designed to follow 1a; 2a or 1b; 2b for those students who wish to acquire a more thorough grasp of the subject as a whole before specializing in any single branch of it. A more analytical treatment of many of the topics already introduced in the first course. Adapted to the needs of the science or mathematics major who wishes a companion course in Physics beyond the elementary one. Suitable also for persons planning to teach in the secondary school. *Three hours a week. Three credit hours.* MR. BENNETT

21 (22). MECHANICS AND HEAT LABORATORY.—A laboratory course including problems in acceleration, moments of inertia, elasticity, viscosity, heat of combustion, thermal constants of materials, and pyrometry. The physical principles are stressed. Course 1a; 2a or 1b; 2b is a prerequisite. *Four hours a week. Two credit hours.* MR. LARSEN

23; 24. Electrical Measurements.—A course in the theories and practices in the measurement of electrical and magnetic quantities. It includes a study of current, resistance, difference of potential, capacitance, magnetic flux, self and mutual inductances, impedance, and frequency of alternating currents. Open to those who have completed Course 1a; 2a, or 1b; 2b and who have a working knowledge of calculus. Laboratory, *four hours a week. One and one-half credit hours.* Mr. Crofutt

32. Photography.—This course deals with fundamental theories and techniques and should be of practical value to those considering any line of activity which involves photography. It should also be of interest to those who pursue photography as a hobby or as a form of artistic expression. The work will include: construction and use of various types of cameras; lenses; exposure and exposure meters; emulsions; filters; artificial lighting and copying; contact and projection printing; dark room practice. Two lectures and one two-hour laboratory period a week. *Three credit hours.* Mr. Crofutt

55; 56. Electricity and Magnetism.—The physical and mathematical relations involved in dealing with problems in electrostatics and direct-current phenomena are considered the first semester. The second semester is devoted to a study of magnetism and alternating currents. Course 1a; 2a or 1b; 2b and a working knowledge of the calculus are required. Given in 1936-37 and alternate years. *Three hours a week. Three credit hours.* Mr. Fitch

58. Mathematical Physics.—An advanced course in which experimental data are examined and their mathematical relations deduced. The complex quantity will be used in problem solution in alternating currents. Some attention will be given to high-frequency phenomena. Open to students who have completed Course 1a; 2a, or 1b; 2b and who have a working knowledge of the calculus. Given in 1937-38 and alternate years. *Three hours a week. Three credit hours.* Mr. Fitch

59. Sound.—A course dealing with vibrating systems, sources of sound, transmission of sound, its reception and transformations. Attention is given to speech and hearing, sound ranging, architectural acoustics, reproduction of sound, noise reduction, and musical instruments. Open to those who have completed Course 1a; 2a, or 1b; 2b and have a working knowledge of the calculus. Given in 1936-37 and in alternate years. *Three hours a week. Three credit hours.* Mr. Crofutt

61. Heat.—A course dealing with the measurement of temperature, specific heat, thermal expansion, conduction, convection, radiation, change of state, and the production of high and low temperatures. Open to students who have completed Course 1a; 2a, or 1b; 2b and who have a working knowledge of the calculus. Given in 1937-38 and in alternate years. *Three hours a week. Three credit hours.* Mr. Crofutt

65. Vacuum Tubes.—A course treating the physics of vacuum tubes. This covers their use as rectifiers, amplifiers, modulators, detectors as well as their construction. Open to advanced students who are familiar with the calculus. Given in 1937-38 and in alternate years. *Two hours a week. Two credit hours.* Mr. Fitch

66. Vacuum Tube Laboratory.—A laboratory treatment of the same material as was covered in the classroom in the preceding course. Open to those who have completed Course 65 or its equivalent. Laboratory, *two hours a week. One credit hour.* Mr. Fitch

69. Modern Physical Theories.—A study of electrical phenomena in gases, spectra, X-rays, thermionic emission, photo-electric effects, radio-activity, atomic structure, and electrical phenomena in solids. Some attention is given to quantum and wave mechanics. Open to students who have completed Course 1a; 2a, or 1b; 2b and can use the calculus. Given in 1936-37 and alternate years. *Three hours a week. Three credit hours.* Mr. Crofutt

73. Light.—An advanced course in the study of light covering its velocity of propagation, reflection, refraction, diffraction, and polarization. It also includes a study of optical instruments. Open to advanced students who can use the calculus. Given in 1937-38 and alternate years. *Three hours a week. Three credit hours.* Mr. Fitch

74. Light Laboratory.—A laboratory treatment covering the same field as Course 73, which is prerequisite to it. Given in 1937-38 and alternate years. Laboratory, *four hours a week. Two credit hours.* Mr. Larsen

81. 82. Advanced Laboratory.—The experimental solution of some problem chosen by the student and a member of the department. In this course the student gets an idea of research by actually taking data on an original problem. Seniors in the department are advised to take this course for one semester. Laboratory, *two or more hours a week. One or more credit hours.* Mr. Fitch, Mr. Crofutt, Mr. Bennett, Mr. Larsen

101. 102. Special Laboratory.—An original investigation, open only to graduate students. It is not expected in this course that the student will confine his work to a minimum number of hours a week. *Five or more credit hours.* Mr. Fitch, Mr. Crofutt, Mr. Bennett, Mr. Larsen

PSYCHOLOGY

Professor Dickinson; Associate Professor E. N. Brush;
Dr. W. S. Neff; Dr. L. H. Brush

Psychology includes a study of mind and of modes of behavior. It offers the student an opportunity to acquaint himself at first hand with the

fundamental laws of the psychophysical organism. Through a study of the child, the normal adult, and the abnormal individual, it enables him to gain an insight into personality development and the problems of human adjustment. Through experience with psychological tests and the techniques of testing he comes to a more practical understanding of intelligence.

In its ramifications psychology borders upon the natural as well as the social sciences. It is most closely allied, however, with education, zoology, economics, sociology, and philosophy.

Some of the occupations which courses offered in the department lead towards are: advertising, clinical psychology, personnel work in business and industry, psychiatric and general social work.

1; 2. General Psychology.—A basic course designed to give a general introduction to the field of psychology. A brief treatment of the nervous system; a systematic survey of such topics as sensation, perception, behavior, motivation, learning and memory, thinking, imagination, intelligence, and personality; a brief discussion of some of the special fields of psychology, e.g., child, social, abnormal. A weekly laboratory period. *Three hours a week.*

Mr. Dickinson, Mr. Brush, Mr. Neff, Mrs. Brush

3. Applied Psychology.—Psychology applied to industry, business, advertising, salesmanship, and other fields. The application of psychological methods and tests in the selection and training of workers. Open only to Technology students in Mechanical Engineering. *Three hours a week.*

Mr. Brush

12. Advertising.—A course designed to acquaint the student with the psychological principles involved in advertising. Practical application of these principles in rewriting advertisements appearing in newspapers and magazines, and in the developing of an advertising campaign in relation to an actual product. Prerequisite, Course 1, or permission of the instructor. *Three hours a week.* Mr. Dickinson

66. Educational Psychology.—The application of psychological facts, principles, and points of view to education. Consideration of growth during the school years, with attention to social, emotional and intellectual development. Learning in schools; its nature and control, its permanence and effects on attitudes, interests and appreciations; the problem of transfer of training. Prerequisite, Course 1; 2. *Three hours a week.* Mr. Brush

67. Psychology of Childhood.—A study of the mental growth of the child to six years of age. Native equipment, environmental influences, the development of motor and behavior patterns, speech, inference, judgment, etc., are given consideration. Modern experimental techniques of child study

are discussed. Five thousand feet of motion pictures are available. Prerequisite, Course 1, 2, with a grade of C or better. *Three hours a week.*

MR. DICKINSON

68. PSYCHOLOGY OF ADOLESCENCE.—A study of the physical and mental changes which occur at this period. Learning, memory and reasoning, emotional maturing, personality development and disturbances of personality are among the items considered. Prerequisite, Course 1; 2. *Two hours a week.*

MR. DICKINSON

69; 70. EXPERIMENTAL PSYCHOLOGY.—The first semester aims to acquaint the student with methods in the qualitative study of experimental problems and orient him in the objective approach to problems. In the second semester emphasis is placed upon quantitative methods and the statistical treatment of social-psychological data. Designed primarily for psychology majors. Prerequisite, Course 1; 2. *Three hours a week.* MR. NEFF

71. 72. ABNORMAL PSYCHOLOGY AND MENTAL HYGIENE.—A study of mental abnormalities followed by a study of the normal mentality, with a view to a better understanding of educational practice and the problems of human adjustment. Through the coöperation of Dr. C. J. Hedin, superintendent, five clinics are conducted at the Bangor State Hospital. Attendance at the clinics is required. Prerequisite, Course 1; 2, with a grade of C or better. *Three hours a week.* MR. DICKINSON

75. SOCIAL PSYCHOLOGY.—General trends in the study of social psychology: the relations of the individual to social institutions; the innate constitution of the individual as the basis of social phenomena; the present experimental methodology and its results in the study of the development of social responses in the individual. Instinct, emotions, personality, custom, and propaganda are studied. Prerequisites, Course 1; 2, with a grade of C or better. *Three hours a week.* MR. BRUSH

81; 82. MENTAL MEASUREMENT.—Training in the use of psychometric methods, with opportunity for their application to practical or research problems. During the first semester the emphasis is upon technical training, during the second upon the application to problems. Primarily for seniors and graduate students who plan to enter the teaching profession, social service, or personnel work. Prerequisite, Course 1; 2. *Three hours a week.*

MR. BRUSH

91. 92. PROBLEMS IN PSYCHOLOGY.—Primarily for graduate students and seniors with a rank of B or better. The self-active student has here an opportunity to select and attack particular psychological problems with the benefit of criticism and suggestions from the instructor at stated intervals. Admission by consent of the instructor. *Hours arranged.*

MR. DICKINSON and STAFF

93. 94. SEMINAR IN PSYCHOLOGY.—Advanced work for graduate students, psychology majors, and other interested and qualified persons. In successive semesters the subject matter includes history of psychology; systems and schools of psychology; current psychological experimental literature; etc. Required of all Psychology majors; prerequisite for others, permission of the instrutor. *Two hours a week.* MR. DICKINSON

PUBLIC SPEAKING

PROFESSOR BAILEY; ASSISTANT PROFESSOR BRICKER; DR. RUNION; MR. FRIEDLY

Courses in speech are a great aid both to the professional and non-professional man. The teacher, lawyer or minister can hardly dispense with a knowledge of how to construct and effectively deliver a speech. Business people find a knowledge of public speaking an aid to them whether they are executives or salesmen. In a word, to be a good speaker is a great help towards leadership in any chosen field.

Drama, on the other hand, while teaching students many of the very essential necessities of voice, posture, ease, and diction, creates a love for the beautiful, and develops an appreciation of one of our greatest arts. No more interesting or cultural employment of leisure time perhaps can be suggested than becoming associated with the drama as playwright, producer, actor, scenic designer or lighting technician. A full enjoyment of dramatic art demands a knowledge of the technical principles upon which it is founded.

Students interested in public speaking as a practical art may major in Speech; those interested in public speaking as a fine art may major in Drama.

The necessary hours for a major in Speech are made up by the coöperation of the Departments of English and Psychology and in Drama by the cooperation of the Department of English.

Students who major in Speech are expected to write and deliver a forty-minute address before some civic organization.

Students who major in drama must either give a recital of approved standard, or direct, or take a major role in, a dramatic production.

Courses in Speaking

1 (2). PUBLIC SPEAKING.—A basic course in public speaking. The student is taught to organize material and to deliver short extemporaneous speeches. Sections are organized chiefly according to the college in which

the student is enrolled, and each section is conducted according to the needs of the group. *Two hours a week.* MR. BAILEY, MR. RUNION, MR. FRIEDLY

3 (4). DEBATING.—Questions of state, national, and international importance are debated in class. Students expecting to do advanced work in debating are advised to take this course as early in their college career as possible. Prerequisite, Course 1 (2). *Two hours a week.* MR. RUNION

5 (6). PERSUASIVE SPEECH.—Course 6 is a continuation of Course 1. The object of the course is to train students to organize their material persuasively, to continue extemporaneous speaking, to give the student practice in organizing and delivering oral reports, and to train the student in the principles of effective conference speaking. Prerequisite, Course 1 (2). *Two hours a week.* MR. BAILEY, MR. RUNION, MR. FRIEDLY

12. BUSINESS AND PROFESSIONAL SPEAKING.—A course designed to help the student who plans to enter business or professional life. Attention is given to the sales talk, the after-dinner speech, the speech of explanation and demonstration, the conference discussion, and radio and telephone speaking. Opportunity is provided for the exceptional student to appear before business groups in neighboring towns. Prerequisite, four hours of speech courses. *Three hours a week.* MR. BAILEY

20. ADVANCED DEBATING.—A course designed to meet the need of the student who desires advanced work in debate or who wishes to direct or teach debating or take part in intercollegiate debate. An individual program is worked out for each student enrolled. Prerequisite, four hours in speech courses and permission of the instructor. *One to three hours a week.* MR. RUNION

45 (46). ADVANCED PUBLIC SPEAKING.—A study of representative orators in both England and America, an analysis of the structures of the oration and the rhetoric of oratory, a review of several historic debates and lyceum lectures, and the preparation and delivery of an original address. Prerequisite, four hours in speech courses. *Three hours a week.* MR. BAILEY

Speech Correction and Vocal Development

0. SPEECH CORRECTION.—Open to students with speech defects. The method of instruction is largely individual. *No credit.* MR. RUNION

47. SPEECH PATHOLOGY.—A course designed to acquaint the student with symptoms, causes, and treatments of disorders of speech and voice. Stuttering, articulatory defects, aphasia, and voice disorders are included. Prerequisite, Course 1 (2) or 7 (8). *Two hours a week.* MR. RUNION

48. Vocal Development.—The aims of this course are to improve the voice and to give training in distinguishing correct and defective sounds. The approach is by breathing and vocal exercises and nonsense dictation tests (the phonetic symbols of the International Phonetic Association are used). Prerequisite, Course 1 (2) or 7 (8). *Two hours a week.* Mr. Runion

Courses in Expression

7 (8). Interpretative Reading.—The oral interpretation of many selections from English prose, poetry, and drama forms the basis of this course. Several selections are rendered from memory, and exercises in the use of the voice are included. This course is recommended especially to the teacher of English. *Two hours a week.* Mr. Bailey

43 (44). Platform Reading.—The interpretation of an entire play. Open only to advanced students who have shown marked ability in expression and desire to do serious platform work. This course may be repeated. The consent of the head of the Department is necessary for enrollment. Prerequisite, Course 7 (8). *Two hours a week.* Mr. Bailey

Theatre

The object in theatre study is to coördinate the various branches of theatrical arts and to create a "producing" unit. For the purpose of registration, students should enroll under the course in theatre meeting their interests and needs. Not more than ten hours may be taken from this group without special permission.

27 (28). Elementary Acting.—A course designed to stress the principles and theory of acting. Opportunity is afforded to act in one or more plays during the semester. *Two hours a week.* Mr. Bailey

29. Scenic Design.—The development and principles of scenic design. Lecture and laboratory. *One hour a week.* Mr. Friedly

32. Costume.—The history of stage costuming and the principles of designing costumes for definite play characters. Conference and laboratory. Prerequisite, Course 29. *One hour a week.* Mr. Friedly

33. Lighting.—A theoretical course in stage lighting. An opportunity will be given to light the class plays produced each semester. *One hour a week.* Mr. Friedly

36. Make-up.—Practice in making up all types of characters. *One hour a week.* Mr. Friedly

37. 38. ADVANCED DRAMATICS.—Advanced work in one or more of the following fields of dramatics: acting, designing, costuming, lighting, and make-up. Prerequisite, Course 27 (28) or equivalent. Program must have the consent of the head of the Department. *Two hours a week.*

MR. BAILEY, MR. FRIEDLY

39 (40). HISTORY OF THE STAGE AND STAGE DIRECTING.—A course giving the student both in theory and practice the principles of stage directing, together with a brief history of the stage. Open only to students who have taken Course 37. 38 or by special permission. *Two hours a week.*

MR. BAILEY

ROMANCE LANGUAGES

PROFESSOR PETERSON; ASSOCIATE PROFESSOR FUNDENBURG; ASSISTANT PROFESSOR ARNOLD; ASSISTANT PROFESSOR BUZZELL; DR. VIGNERAS

The Department of Romance Languages offers in its French courses the opportunity to perfect one's self in writing and speaking the language. The first-year work provides primarily practice in rapid reading; in subsequent years the structure and development of the language are set forth in the linguistic courses, while the customs and manners of the people are discussed in the classes in conversation. The chief literary works are carefully read and interpreted and the student is encouraged to develop independence of critical judgment. The student is thus given an opportunity through first-hand acquaintance with the language and literature of a people to establish direct relationship with its culture.

A more limited range of courses is available in Italian and Spanish, but their aim, so far as time permits, is the same as that of the work in French.

Students concentrating in French are required to elect 22 hours in the junior and senior years. Students concentrating in the general field of Romance Languages may combine two or more of these languages, electing in the junior and senior years a total of 22 hours. In all cases 12 of these 22 hours must be in literature. French courses 21, 25, 26 may not be included in the concentration work of the last two years, being primarily intended for sophomores.

Students not concentrating in Romance Languages but expecting to teach them will be recommended for the Teacher's Certificate if they elect one year-course in literature (normally Fr 25. 26) and two year-courses in oral French. This same basic program is recommended also for those who take French with a view to diplomatic and consular service or positions in the foreign department of city banks or foreign posts in other industries.

The oral work especially is suggested for those interested in art and music, and secretarial work.

French

BASIC COURSES

These courses, intended for freshmen, are designed to teach the student to read at sight the French of representative authors. The material is chosen from outstanding French writers of the nineteenth century.

3; 4. INTERMEDIATE FRENCH.—Open to students who have offered two units of French as entrance requirements, and to those who have offered three units whose preparation proves inadequate for successful work in French 5, 6. In the latter case only two hours of credit are allowed. Regularly five hours credit. *Four hours a week.* MR. FUNDENBURG, MISS BUZZELL, MR. VIGNERAS

5. 6. ADVANCED FRENCH.—Open to students offering three units of French as entrance requirements, and to exceptional students offering two units only. With less emphasis upon formal grammar, this course is meant to develop a habit of discriminating translation. *Three hours a week.*
MR. FUNDENBURG, MISS BUZZELL, MR. VIGNERAS

GENERAL LANGUAGE AND LITERATURE COURSES

7. 8. ELEMENTARY CONVERSATION AND COMPOSITION.—Open to students who have offered two units of French as entrance requirements. Grammar review, together with constant drill in spoken French in order to achieve correct speech. *Two hours a week.* MR. FUNDENBURG, MR. VIGNERAS

8a. ELEMENTARY CONVERSATION AND COMPOSITION.—A second-semester course for exceptional students, covering by intensive study the same ground as French 7, 8. Admission by arrangement only. *Two hours a week.*
MR. FUNDENBURG, MR. VIGNERAS

9. 10. ADVANCED CONVERSATION AND COMPOSITION.—The aim of the course is to teach the student, through discussion of the customs and interests of every-day French life, to speak fluently in colloquial French. *Two hours a week.* MR. FUNDENBURG, MR. VIGNERAS

17. 18. READINGS IN CONTEMPORARY FRENCH.—Open only to students who after completing Course 3, 4 or 5, 6 need additional preparation in order to pass the reading test. *Three hours a week.* MISS BUZZELL

21. The French Novel of the Nineteenth Century.—In this course is studied the renewal of French literary inspiration by Chateaubriand and Victor Hugo and the successive forms of art illustrated by Balzac, Flaubert, Maupassant, and more recent writers. *Three hours a week.*

Miss Buzzell

The following courses are conducted in French.

25. 26. The French Theater of the Nineteenth Century.—This course seeks to enable the student to understand the works of the great dramatic artists of modern France from the point of view of the French public. An effort is made to develop independent criticism of both style and technique. *Three hours a week.*

Mr. Fundenburg

57. 58. Advanced French Grammar.—A review of the fundamentals of grammar especially important in secondary-school instruction. Through practical exercises the student is taught to recognize and explain common difficulties confronting the teacher of elementary French. *Three hours a week.*

Mr. Vigneras

59. 60. French Essay Writing.—The student is taught to organize original material and to express himself clearly and logically in living French. Not given in 1937-38. *Three hours a week.*

Mr. Vigneras

Prerequisite for French 63, 64, 67, 74 is 21, 22.

63. 64. French Classicism.—A study of the seventeenth century, the age which established the standards of perfection in form and in language ever since the characteristic of French literary production. Not given in 1937-38. *Three hours a week.*

Mr. Fundenburg

67. Contemporary Literature.—A brief review of literary trends from 1880 to the World War, followed by an intensive study of the post-war period. Economic, political, and social influences are emphasized. *Three hours a week.*

Mr. Vigneras

74. The Age of Voltaire.—A study of the appearance of modern critical thought and attitude in the literature of the eighteenth century. *Two hours a week.*

Mr. Vigneras

Spanish

1-2. Elementary Spanish.—A course for beginners, which includes a study of the basic principles of Spanish grammar, pronunciation exercises, dictation, oral practice, and composition, with especial attention to the mastery of verb forms and pronouns. Reading is begun at an early date, and emphasis

is laid upon the acquirement of an adequate vocabulary and facility in reading. *Four hours a week.* MISS ARNOLD

1a-2a-2b. ELEMENTARY SPANISH.—This is similar in content to Course 1-2 but extends through three semesters and includes a larger amount of reading. The class begins in the second semester and is continued through the following year. *Three hours a week.* MISS ARNOLD

3. 4. MODERN SPANISH PROSE.—The principal aim of this course is to secure facility in the reading and comprehension of ordinary Spanish prose of the modern period. Certain books—novels, short stories, and plays—are studied intensively while others are read more rapidly. Review of grammar, study of idioms, and oral practice. Designed for second-year students. *Three hours a week.* MISS ARNOLD

5. 6. ELEMENTARY CONVERSATION AND COMPOSITION.—Stress is laid upon the acquisition of a practical vocabulary by means of exercises based upon Spanish newspapers. Study of the grammar and translation into Spanish. Designed for third-year students or for second-year students who are pursuing at the same time Course 3, 4. *Two hours a week.* MISS ARNOLD

7. COMMERCIAL SPANISH.—The object of this course is to acquaint the student with the forms of private and commercial correspondence and the vocabulary used in the business world. Reading of selections dealing with industrial and commercial life. Given in 1937-38 and alternate years. *Three hours a week.* MISS ARNOLD

9. 10. RAPID READING COURSE.—A continuation of Course 3. 4 designed especially to promote facility in reading. The material read, consisting largely of narratives, will be limited to the modern period. *Two hours a week.* MISS ARNOLD

The following courses may be given for special reasons: 51. 52. THE NOVEL AND DRAMA.

SOCIAL SCIENCE

1; 2. INTRODUCTION TO THE SOCIAL SCIENCES.—A survey of the origins and historical development of some of the characteristic features of western civilization. Emphasis is placed on economic and political institutions as part of the rise and development of the social sciences. Open only to Home Economics students. *Three hours a week.* MR. KIRSHEN

ZOOLOGY

PROFESSOR MURRAY; DR. NELSON; DR. FISHER; MR. COOPER; DR. SPEICHER; MRS. MILNE; MR. O'BRIEN

Zoology is the branch of biological science which deals with the study of animal life. A knowledge of the general principles of zoology is prerequisite to an understanding of the relationships which exist between man and his natural environment, and serves as a basis for the study of the mental and social side of human behavior.

The Department offers curricula satisfying the requirements for admission to graduate, medical, dental, and nursing schools.

1. GENERAL ZOOLOGY.—A one-semester course in the fundamentals of zoology, illustrated by laboratory study of typical forms from the various groups of the animal kingdom. This course is designed to meet the requirements of students in the College of Agriculture. Together with Botany 2 it may be taken to fulfill the natural science requirement in the College of Arts and Sciences. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. MURRAY, MRS. MILNE

3; 4. ANIMAL BIOLOGY.—A two-semester course in the fundamental principles of animal life, with laboratory study of the structure and function of organ systems in typical forms from the various groups of the animal kingdom. This course is prerequisite to all advanced courses in the department and fulfills the natural science requirement in the College of Arts and Sciences. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. MURRAY, MR. SPEICHER, and ASSISTANTS

5. ELEMENTARY PHYSIOLOGY AND HYGIENE.—The principles of anatomy, physiology, and hygiene applied especially to human well-being. Required of all first-year women except those in the Department of Home Economics. Classroom, *two hours a week. Two credit hours.* MRS. MILNE

9. ICHTHYOLOGY.—A course which deals with the characteristics of fishes, their life histories and economic importance, with particular emphasis on the fresh water species. Lectures, supplemented by laboratory study and dissection. Prerequisite, Zoology 1 or 3; 4. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. COOPER

10. ORNITHOLOGY.—A course which deals with the characteristics of birds, their life histories and economic importance, with particular emphasis on game species. Lectures supplemented by laboratory study of skins and mounted specimens, and directed field observation. Prerequisite, Zoology

1 or 3; 4. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. COOPER

12. ANATOMY AND PHYSIOLOGY.—A course which takes up the general principles of animal life and the structure and function of organs and organ systems, with special emphasis placed on higher mammalian forms. Designed for students in the Department of Home Economics, but open, by permission of the instructor, to all qualified women students. Classroom, *three hours a week;* laboratory, *four hours a week. Five credit hours.*

MR. MURRAY, MR. FISHER

13. MAMMALOGY.—A course which deals with the characteristics of mammals, their life histories and economic importance, with particular emphasis on game species. Lectures supplemented by laboratory study and dissection. Prerequisite, Zoology 1 or 3; 4. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. MURRAY

14. ANIMAL PARASITOLOGY.—This course deals with the identification of the more important parasites, the study of their life histories, and the prevention, control, and cure of the diseases involved. Special emphasis is given to the parasites affecting game animals. Prerequisite, Zoology 1 or 3; 4. Classroom, *one hour a week;* laboratory, *four hours a week. Three credit hours.* MR. NELSON

15; 16. COMPARATIVE ANATOMY.—A comparative study of the structure, origin, and history of the vertebrate organ-systems. Prerequisites, Zoology 1 and Botany 2, or Zoology 3; 4, passed satisfactorily. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.*

MR. NELSON, MR. O'BRIEN

18. VERTEBRATE EMBRYOLOGY.—A study of the development and formation of tissues, organs, and organ-systems in vertebrates. Prerequisite, Course 15; 16 passed satisfactorily. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. MURRAY

19. FISH CULTURE.—This course deals with the practical problems involved in the rearing of fish. Prerequisites, Zoology 9 and Entomology 26. First nine weeks of the first semester. Lecture, *one hour a week;* laboratory, *three hours a week. One credit hour.* MR. COOPER

20. FISH CULTURE.—Continuation of 19. Lecture, *two hours a week;* laboratory, *three hours a week. Three credit hours.* MR. COOPER

21. ANIMAL ECOLOGY.—This course deals with the ecology of game animals. Prerequisites, Zoology 10 and 13. First nine weeks of the first semester. Lecture, *two hours a week. One credit hour.* MR. COOPER

22. Animal Ecology.—Continuation of 21. Lecture, *three hours a week. Three credit hours.* Mr. Cooper

37; 38. General Physiology.—A study of the physico-chemical forces of the vital processes of plants and animals; the more special phenomena in higher animals, with their bearing on human physiology. Prerequisites, two years of chemistry, one year of physics, and either Zoology 3; 4, or Zoology 1 and Botany 2. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* Mr. Fisher

41. Histology.—A study of animal tissues and of the methods of preparing microscopic slides. Admission by arrangement with the instructor. Prerequisite, two years of zoology. Classroom, *one hour a week;* laboratory, *six hours a week. Three credit hours.* Mr. Nelson

44. Biological Theories.—A discussion of the more important generalizations concerning the biological sciences designed to portray the growth and development of biological knowledge as a phase of intellectual culture, and to indicate the value of such knowledge to human welfare. Open only to zoology majors in the junior and senior years and to others upon the written approval of the instructor. Classroom, *two hours a week. Two credit hours.* Mr. Nelson

47. 48. Problems in Zoology.—Open to juniors and seniors who may have special interest and special qualification in some branch of zoology. The approval of the instructor concerned must be obtained before registering for this work. *Credit, arranged.* Mr. Murray

55. 56. Zoological Seminar.—A consideration of the historical and current literature which expresses the trends of thought in biological science. Required of all senior majors and graduates majoring in zoology. Classroom, *one hour a week. One credit hour.* The Departmental Staff

Opportunity is given for graduate work in the various phases of zoology under the direction of the members of the Department. Students with adequate preparation may register by special written permission for the following courses:

105. 106. Problems in Zoology.

111. 112. Problems in Physiology.

School of Education

GENERAL INFORMATION

The School of Education offers professional training to secondary teachers, superintendents, principals, and supervisors. Students will ordinarily enter with Junior standing, having had the first two years of work in either a liberal arts college or a normal school. Those with a different type of training may enter as special students until Junior standing is attained.

ADMISSION

Students in the College of Arts and Sciences

Those students in the College of Arts and Sciences of the University of Maine who plan to teach are given the opportunity to transfer to the School of Education at the beginning of their junior year. Such students should take the regular course as prescribed by the College of Arts and Sciences during the freshman and sophomore years, including in particular the course in General Psychology and such basic courses in other fields as will lay the foundation for a field of concentration.

At the beginning of the sophomore year, such students should register their intention to teach in the office of the Dean of the School of Education, and secure his approval as well as the approval of the Dean of the College of Arts and Sciences for their courses of study.

To be admitted to the School of Education students must have made a grade of C or better in at least three-fourths of their entire work during the freshman and sophomore years.

These students will be candidates for the degree of Bachelor of Arts in Education on the completion of their program in the School of Education.

Normal School Graduates

Graduates of the two-year course in normal schools who rank in the upper half of their graduating class, and who are recommended for college work by their principal, will be admitted to the School of Education with Junior standing. These graduates will be given fifty-four semester hours

of advanced credit and by carrying a full program may graduate on the completion of two years of work. This rule is subject to modification if experience should warrant it. Successful teaching experience will be taken into consideration in passing on qualifications for admission.

Graduates of three-year training courses for junior high school teachers may be admitted in the same manner and be given eighty hours of credit and Senior standing. This will make it possible to complete the requirements for graduation in a year and one or two summer sessions, depending on how heavy a program is carried.

Those graduates who rank in the upper 15 per cent of their class will be granted an additional credit of three hours toward graduation.

All normal school graduates will be expected to meet the requirement of a field of concentration in academic subjects, except that those who plan to enter administrative or supervisory work, or to remain in elementary school work, may be permitted to take this work in Education and Psychology. In either case any work previously taken at the normal school which lies within the field chosen will be given due credit toward the requirements.

Normal-school graduates who are interested in entering the School of Education should request their principal to send a transcript of their record together with a statement giving their class rank to the Registrar of the University. These should be accompanied by a recommendation of the candidate by the principal.

Students who come from the normal schools will ordinarily be candidates for the Bachelor of Science in Education degree.

Graduates of other types of teacher-training institutions will be considered on their merits as special cases.

Commercial Education

An arrangement has been made with the State Department of Education whereby graduates of the teacher-training departments of approved commercial schools may receive appropriate credit toward the degree of Bachelor of Science in Commercial Education. For further information inquiries should be addressed to the office of the School of Education.

GRADUATION REQUIREMENTS

A total of 125 semester hours of college work is required for graduation. Of this total, approximately 24 hours will be required in Education and Psychology, and 40 to 50 hours in the field of concentration, all of which must be carried with a grade of C or better.

In addition, three-fourths of all work counted toward a degree must be completed with a grade of C or better.

Professional Subjects Required

Ed 29 (or 30)—Practice Teaching
Ed 51, 52, 53, or 54—History of Education
Ed 59—Principles of Secondary Education
Ed 65 (or 66)—Educational Measurement
Ed 77 (or 78)—Principles and Methods of High School Teaching
Py 1, 2—General Psychology
Py 66—Educational Psychology
Special Methods (one such course to be selected in a subject within the field of concentration)

Besides these specific requirements in strictly professional subjects, students will be strongly advised to take general courses in a number of subjects of vital importance as a part of the background of any teacher or educator, such as biology, economics, English, history and government, and sociology.

Field of Concentration

In order better to meet the needs of the typical high-school situation, the traditional requirement of a single major subject will be replaced by that of a field of concentration in the academic subjects. This field of concentration must include a minimum of 40 to 50 semester hours in a group of related subjects commonly taught in the secondary schools, the exact amount to depend on the number and character of the subjects combined, and the quality of the work done. This work must be carried with a grade of C or better to qualify for a degree in Education, and must be acceptable to the heads of the departments in which it is taken.

This requirement applies to all students whether working for the Bachelor of Arts in Education or the Bachelor of Science in Education degree. However, those who have had teaching experience and who plan to enter administrative, supervisory or elementary school work may be permitted to carry their field of concentration in Education and Psychology instead of academic subjects.

Combinations of subjects which occur frequently in the secondary schools are as follows: French and Latin; English and History; Mathematics and the Natural Sciences; English and Latin; English and French; History and

Latin; English, French, and Latin; English, History, and Latin; English, History, and French; History, Civics, Economics, and Sociology.

Subjects which occur in a large variety of combinations are Physical Education, Music, Debating, and Dramatics. Each student will be expected to take sufficient work to attain proficiency in at least one of these fields.

COMPREHENSIVE EXAMINATIONS

Beginning with the Class of 1935 seniors in the School of Education will take a comprehensive oral examination in the subject of education, to be given individually by arrangement during the month of May. Non-resident and summer session students will be expected to take the examination beginning with the class of 1936.

The main purpose of this requirement is to enable students in education to develop a better integration of their professional training and outlook. To facilitate this purpose and to compensate in part for the lack of a tutorial system which usually accompanies a system of comprehensive examinations, a new course, Education 49 (50), is required of students one semester during their senior year.

HONORS COURSE

Attention is called to the tutorial honors course which is open to superior students in education who may desire to supplement their field of concentration by study under individual tutorial guidance. A fuller description of this course is to be found at the beginning of the section on General Courses.

RESIDENCE REQUIREMENT

A minimum of thirty semester hours of credit must be earned while in residence at the University to qualify a candidate for a degree. This requirement may be met by one academic year of residence, or in case of teachers by attendance in summer sessions. Five summer sessions may be accepted as the equivalent of one academic year provided the work is of distinctly high quality. In either case, this requirement must ordinarily be met after the student has become a candidate for a degree in the School of Education.

Exceptions to these rules will not be permitted except by a vote of the faculty.

A maximum of sixteen semester hours may be earned toward a degree by extension work, of which not over eight hours may be taken by correspondence.

DEGREES

(1) Bachelor of Arts in Education. This degree will be given to students who do the first two years of work in the College of Arts and Sciences, or the equivalent thereof, meet their entrance requirements, and their curricular requirements for the first two years. Candidates for this degree will be required to complete a minimum of 40 to 50 hours in a group of related academic subjects which are commonly taught in the public schools, with a grade of C or better.

(2) Bachelor of Science in Education. This degree will be given to students who are admitted from normal schools with advanced standing. Requirements for the degree will include a field of concentration in the academic subjects as for the B.A. degree, and the same professional courses. In meeting both these requirements, however, due credit will be given for the courses which have been previously taken in the normal-school course.

(3) Bachelor of Science in Commercial Education. This degree has been established for graduates of approved teacher-training departments of commercial schools in Maine, who transfer to the School of Education on the completion of their course and complete the course approved for this degree.

PROFESSIONAL CERTIFICATES

On the successful completion of the above program students will be recommended to the State Department of Education for the Professional Secondary Certificate.

Students will be recommended for the various Special Certificates on the satisfactory completion of programs of study which have been approved by the State Department.

Courses of Instruction

Courses designated by an odd number are given in the fall semester, those designated by an even number, in the spring semester.

When a course is offered in the first semester and also repeated in the second, it is designated by two numbers, the second of which is in parenthesis.

A period between the numbers designating a two-semester course indicates either semester may be taken for credit.

Courses numbered 1-50 are for undergraduates only; courses numbered 51-100 are primarily for upperclassmen and graduates; courses numbered above 100 are primarily for graduates.

For courses in Psychology, see Department of Psychology in the College of Arts and Sciences.

29 (30). Supervised Student Teaching.—A course in student teaching in academic subjects. Open to a limited number of seniors recommended by the Dean of the School of Education and approved by the heads of the academic departments. Preference is given to those who have completed Education 77 or 78. *Five hours a week. Three credit hours.*

Mr. Jackman

29a. Supervised Teaching in English.—Supervised tutoring of small groups of freshmen deficient in the mechanics of composition. Weekly conferences with the instructor in charge. Open to qualified seniors whose major subject is English. *Two class hours weekly, first or second half semester. One credit hour.* Mr. Jackman, Miss Snider

43 (44). Character Education.—A study of the nature of character and a critical appraisal of the means employed to cultivate it in young people with reference to theories of mental hygiene and progressive education. Prerequisite, Psychology 1, 2. *Three hours a week.* Miss Wilson

49 (50). Education Seminar.—This course is required of seniors in education one semester, and is designed to help integrate the various courses in education for the comprehensive examination. *Two hours a week.*

Departmental Staff

51. History of Education in the United States.—Evolution of education, educational institutions, school systems and practices of the American people. Open to juniors and seniors. *Three hours a week.*

Miss Chadbourne

52. History of Education in Maine.—A study of the evolution of the educational system in the State from its earliest period to the present time. Open to juniors and seniors. Not given in spring semester 1937-38. *Three hours a week.* Miss Chadbourne

53. History of Ancient and Medieval Education.—Historical analysis and interpretation of the more important elements in modern education derived from the Hebrews, Greeks, Romans, Middle Ages, and Renaissance. Open to juniors and seniors. *Three hours a week.* Miss Chadbourne

54. History of Modern Education.—Evolution of present-day educational theory; institutions and practices of modern civilizations from the time of the Reformation up to the present. Open to juniors and seniors. Not given in spring semester 1937-38. *Three hours a week.* Miss Chadbourne

59 (60). Principles of Secondary Education.—A course in the application of the principles of education with special reference to the problems of high-school teaching. The aims of secondary education in a democracy in terms of skills, knowledges, tastes, and ideals which are demanded in modern life. Primarily for juniors and seniors. Open to sophomores by permission. *Three hours a week.* Mr. Lutes

61. School Administration.—The general problems of school organization and administration in the United States. Primarily for seniors. Open to others by permission. *Three hours a week.* Mr. Lutes

62. Secondary School Administration and Supervision.—A practical course for those who are looking forward to positions as high-school principals or supervisors. Problems of organization, teacher selection and rating, improvement of teachers in service, salary schedules, extra-curricular activities, testing programs, and techniques of supervision will be emphasized. Primarily for seniors. Open to others by permission. *Three hours a week.* Mr. Lutes

63. Junior High School Methods.—The course aims to present a theory of the junior high school based upon the psychology of adolescence, and to show the concrete consequences of such theory in the formation and treatment of a desirable curriculum. Open to juniors and seniors. Given in 1937-38 and alternate years. *Two hours a week.* Mr. Jackman

65 (66). Educational Measurements.—An introduction to educational measurements including principles of measurement, informal and standardized educational tests, group mental tests, and the uses of elementary statistics in educational measurements. Open to juniors and seniors. Classroom, *two hours a week;* laboratory, *two hours a week. Three credit hours.* Mr. Crawford

68. Vocational and Educational Guidance.—The aim is to present to prospective teachers the general problem of guidance in junior and senior high schools, with especial reference to the vocational phase, organization for guidance, necessary materials and techniques of counseling. Open to juniors and seniors. *Three hours a week.* Mr. Jackman

71. Psychology of Secondary Education.—A study of the adolescent age and its characteristics. Psychological principles which determine the scope and character of secondary education. Open to students who have passed Psychology 1, 2 with a grade of C; to others by permission. *Three hours a week.* Mr. Lutes

74. Extra-Curricular Activities in the Secondary School.—This course is designed to acquaint the prospective high-school teacher with the nature and scope of non-academic cultural and recreational activities related to the needs of adolescence, and to aid the teacher in developing a technique for their promotion, and for their correlation with the usual academic courses. Given in 1936-37 and alternate years. *Two hours a week.* Mr. Jackman

75. Teaching the Social Sciences in Secondary Schools.—The purpose of the course is to acquaint the prospective teacher of the social sciences with a point of view and vital methods of presentation that will tend to make these subjects effective in the everyday problems of living. Open to juniors and seniors. Given in 1937-38 and alternate years. *Two hours a week.* Mr. Jackman

77 (78). Principles and Methods of Teaching in Secondary Schools.—A general course in methods for prospective high-school teachers. Open to seniors and juniors who have had General Psychology. *Three hours a week.* Mr. Jackman

81. Supervision in the Elementary School.—The theory of supervision in general and specific methods of supervision of the prominent elementary school subjects will be considered. Open to normal-school graduates, and students with teaching experience. Others by permission. *Two hours a week.* Mr. Crawford

84. Administration of the Elementary School.—A course for prospective superintendents and elementary school principals. Open to normal-school graduates and students with teaching experience; to others by permission. *Two hours a week.* Mr. Crawford

95. 96. Philosophy of Education.—A course for seniors and graduate students designed primarily for the reading and discussion of conflicting factors in education with a view to their criticism and coördination. Not given in spring semester 1937-38. *Two hours a week.* Miss Chadbourne

97. 98. Current Problems in Education.—Each student is assigned special problems in the field of education. Primarily for majors in education. Open by permission to others. Seniors only. *Two hours a week.*

Mr. Lutes and Staff

105. Methods of Research in Education.—A course in principles and techniques of educational research. Designed primarily for graduate students writing theses in education. Opportunity will be afforded to use thesis problems to illustrate the principles and techniques emphasized in the course. This course will be required of graduate students majoring in education. *Two hours a week.*

Mr. Lutes

College of Technology

GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, various branches of engineering, and pulp and paper technology. The various engineering curricula have been arranged to fit the needs of most students. Although not stated in the outline of courses, bands of electives have been arranged for the student having decided aptitudes or preference, so that a sequence of studies in any one of several groups of non-technical subjects, which will especially train him for work in those fields in which he is interested, may be pursued. These elective groups are: (1) mathematics and science, (2) economics and psychology, (3) history, psychology, and sociology, (4) foreign language, (5) literature.

Those students showing marked inventive or research abilities are guided to studies in mathematics and science; those with tendencies for commercial or managerial work are advised to elect the second or third group; and for the students with strong preference for language or literature, the fourth and fifth groups are provided.

Orientation lectures, which engineering freshmen are required to attend, and conferences with faculty advisers during his first year are designed to assist the freshman in the final selection of his course.

Under each of the curricula described below is given a tabulated statement of the subjects pursued and the amount of work required. The College comprises:

Chemical Engineering Curriculum
Chemistry Curriculum
Civil Engineering Curriculum
Electrical Engineering Curriculum
General Engineering Curriculum
Mechanical Engineering Curriculum
Pulp and Paper Technology Curriculum

The following requirements for graduation are common to all curricula in this college:

1. A total of 143 semester hours exclusive of Mt 1, 2, 3, and 4, and physical training. Three of these hours may be for thesis. Eight credit hours may be allowed for advanced military.

2. Drawing, four semester hours.

3. Language: English and Public Speaking, twelve semester hours with a minimum of two semester hours and a maximum of four semester hours of Public Speaking.

4. Mathematics, eighteen semester hours.

5. Military science, seven semester hours. Physical Training, two years.

6. Science: Chemistry, eight semester hours; Physics, ten semester hours.

At graduation in any of these curricula the student receives the degree of Bachelor of Science.

Upon the completion of one year's prescribed work in residence, including the presentation of a satisfactory thesis, he may receive the degree of Master of Science. Five or more years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive a professional degree.

HONORS COURSE

Attention is called to the tutorial honors course which is open to superior students in engineering who may desire to supplement their field of concentration by study under individual tutorial guidance. A fuller description of this course is to be found at the beginning of the section devoted to General Courses.

MAINE TECHNOLOGY EXPERIMENT STATION

General Statement

By action of the Board of Trustees, June, 1915, the establishment of a Maine Technology Experiment Station was authorized. This station is under the direct control of the Dean of the College of Technology and the heads of the departments.

Income

The income of the Station is derived from University appropriations and from the State Highway Department.

Object

The objects of the Station are to carry on practical research in engineering subjects, make investigations for State boards and municipal authorities, furnish scientific information to the industries of the State, and distribute accurate scientific knowledge to the people of the State.

Equipment

Most of the Station offices and laboratories are at present located in Wingate Hall, described in the section on University buildings. The Station is well equipped for the testing of concrete and highway materials, both bituminous and non-bituminous. Crosby laboratory is available for researches in the fields of hydraulics, steam-engineering, gas-engineering, metallography, and strength of materials. The new electrical power laboratory in Lord Hall includes among its equipment a 150,000 volt testing transformer and standard instruments for calibration purposes. The new communication laboratory in this building offers facilities for telephone transmission testing and radio research. The Department of Pulp and Paper Technology in Aubert Hall is equipped for the testing of pulp and paper products. The highway materials laboratory in the basement of Wingate Hall is equipped jointly by the Civil Engineering Department and the Maine State Highway Department.

Investigations

The principal line of research has been in the field of concrete and concrete materials. Some work has also been started in the pulp and paper industry. Researches are also being conducted in the electrical, mechanical, and chemical fields. In the field of concrete materials the Station is coöperating with the American Society for Testing Materials in the statistical analysis of data.

Publications

The Station issues two series of publications: Bulletins and Papers. It has issued thirty-two Bulletins and nineteen Papers. The papers have been issued as reprints from such technical journals and magazines as: Proc. Nat. Acad. of Sciences, Proc. Am. Soc. for Testing Materials, Proc. Am. Conc. Inst., Proc. Am. Soc. Civil Eng., Electrical Engineering, Journal Me. Assn. of Engrs., Industrial and Engineering Chemistry.

CURRICULA

FRESHMAN YEAR

Common to all engineering courses and Chemistry

Fall Semester — *Spring Semester*

Subject	Hours Rec.	Lab.	Cr.	Subject	Hours Rec.	Lab.	Cr.
Ch 1a or 1b Gen. Chem.	2	4	4	Ch 2a or 2b Gen. Chem.	2	4	4
Eh 1 Freshman Comp.	3	0	3	Eh 2 Freshman Comp.	3	0	3
Md 1 Funds. Draft.	0	4	2	Md 2 Ely.Mach.Draft.	0	4	2
Ms 1 Trigonometry	2	0	2	Ms 6 Anal. Geom.	4	0	4
Ms 3 Algebra	2	0	2	Mt 2 Military	2	1	1½
Mt 1 Military	2	1	1½	Ps 2b General Physics	5	2	5
Ps 1b General Physics	5	2	5	Pt 2 Phy. Education	0	2	0
Pt 1 Phy. Education	0	2	0	Gc 6 Orientation	1	0	½
Gc 5 Orientation	1	0	½				

Chemical Engineering Curriculum

This curriculum is designed to train students to become chemical engineers and leads to the Bachelor of Science degree in chemical engineering. The first two years are almost identical with those under the Chemistry curriculum, but in the junior and senior years the students enrolled take fundamental courses in chemical engineering, supported by related work in other engineering fields.

Graduates will be prepared to enter the profession of chemical engineering and to occupy positions as production foremen, plant directors, research and chemical engineers in industrial plants. Chemical engineering graduates from this Department are now holding responsible positions as consulting chemical engineers, industrial sales engineer, assistant plant superintendent, research chemical engineer, research engineer and plant director. Graduates from recent classes hold such positions as examiner in U. S. Patent Office, engineer, assistant traffic manager in a chemical company and several positions designated as chemist. Superior students should give serious consideration to an additional year's study for the Master of Science degree in chemical engineering.

The student must register for all courses listed in the first group for each semester unless in exceptional circumstances he is permitted to substitute an

approved elective for a course printed in italics. Courses in this group not italicized *must be passed* before he is eligible for graduation.

From the elective list the student must select sufficient additional hours to bring his total to that required by the College, namely, 143 exclusive of Military. See also statements on pages 225 and 226.

FRESHMAN YEAR

Common to all engineering courses. See page 228.

SOPHOMORE YEAR

Fall Semester

Subject			Hours		
			Rec. or Comp.	Lab.	Cr.
Ch	*21*	*Intro. Theoret. Chem.*	*2*	*0*	*2*
Ch	31	Micro-Qual. Anal.	2	8	5
Gm	*19*	*German for Chemists*	*3*	*0*	*3*
Ms	7	Diff. Calculus	5	0	5
Mt	3	Military	2	1	2
Pb	1	Pub. Speaking	2	0	2
Ps	*23*	*Elec. Meas.*	*0*	*4*	*1½*
Pt	3	Phy. Education	0	2	0
		Electives	—	—	0-3

Spring Semester

Subject			Hours		
			Rec. or Comp.	Lab.	Cr.
Ch	*22*	*Intro. Theoret. Chem.*	*2*	*0*	*2*
Ch	40	Quant. Anal.	1	8	4
Gm	*20*	*German for Chemists*	*3*	*0*	*3*
Me	*28*	*Kinematics*	*2*	*0*	*2*
Ms	8	Int. Calculus	5	0	5
Mt	4	Military	2	1	2
Ps	*24*	*Elec. Meas.*	*0*	*4*	*1½*
Pt	4	Phy. Education	0	2	0
		Electives	—	—	0-3

Suggested Elective Courses

Elective Band 1

Me	9	Machine Work	0	4	1½

Elective Band 2

Es	1a	Prin. of Econ.	3	0	3
Es	1b	Prin. of Econ.	2	0	2
Md	3	Des. Geometry	0	6	2

Suggested Elective Courses

Elective Band 1

Ch	48	Miner. & Crys.	1	4	3
Me	10	Machine Work	0	4	1½
Ps	10	Meteorology	3	0	3

Elective Band 2

Ce	12	Economic Geog.	3	0	3
Es	2a	Prin. of Econ.	3	0	3
Es	2b	Prin. of Econ.	2	0	2
Md	4	Adv. Mach. Drafting	0	6	2

		Elective Band 3					Elective Band 3		
Sy	1	Prin. of Sociology	3	0	3	Sy 2	Prin. of Sociology	3	0	3
		Elective Band 4					Elective Band 4		
Fr	5	Adv. French	3	0	3	Fr 6	Adv. French	3	0	3
		Elective Band 5					Elective Band 5		
Eh	7	Second-Yr. Comp.	3	0	3	Eh 8	Second-Yr. Comp.	3	0	3
						Pb 2	Pub. Speaking	2	0	2

JUNIOR YEAR

Fall Semester						*Spring Semester*				
Subject			Hours			Subject			Hours	
			Rec.	Lab. or Comp.	Cr.				Rec.	Lab. or Comp.	Cr.
Ch	51	Organic Chem.	3	4	5	Ch 52	Organic Chem.	3	4	5
Ch	71	Phys. Chem.	3	4	5	Ch 72	Phys. Chem.	3	4	5
Eh	5	Technical Comp.	2	0	2	Ch 76	Els. of Chem. Eng.	3	0	3
Eh	*9*	*Modern Lit.*	*2*	*0*	*2*					
Mn	53	Mechanics	3	0	3	Ee 30	D. C. Machinery	2	0	2
		Electives	—	—	0-3	Mn 54	Mechanics	3	0	3
							Electives	—	—	0-3

Suggested Elective Courses

		Elective Band 1					Elective Band 1		
Ce	13	Phys. Geology	3	0	3	Ce 14	Hist. Geology	3	0	3
Ms	55	Diff. Equations	3	0	3	Ch 62	Adv. Quant. Anal.	1	8	4
Pa	65	Pulp Technology	2	0	2	Me 66	Machine Design	2	3	3
Ps	61	Heat	3	0	3	Pa 66	Paper Tech.	2	0	2
		Elective Band 2					Elective Band 2		
Es	51	Corp. Finance	3	0	3	Es 52	Social Con. of Ind.	3	0	3
Es	73	Labor Problems	3	0	3	Ms 18	Invest. Theory	2	0	2
Ms	17	Invest. Theory	2	0	2	Py 2	Gen. Psychology	2	2	3
Py	1	Gen. Psychology	2	2	3	Py 12	Advertising	3	0	3
		Elective Band 3					Elective Band 3		
Py	1	Gen. Psychology	2	2	3	Py 2	Gen. Psychology	2	2	3
						Py 12	Advertising	3	0	3

Elective Band 4

French
Gm 21 German for
Chemists 3 0 3

Elective Band 4

French
Gm 22 German for
Chemists 3 0 3

Elective Band 5

Eh 78 Creative Writing 3 0 3

SENIOR YEAR

Fall Semester

Subject			Hours Rec.	Lab. or Comp.	Cr.
Ch	*49*	*Thesis .....*	*Arr.*		*1-3*
Ch	77	Els. of Chem. Eng.	3	0	3
Ch	79	Inorg. Chem. Tech.	2	0	2
Ch	81	Chem. Eng. Lab..	1	4	2
Ch	85	Seminar	1	0	1
Ch	*93*	*Econ. of Chem. and Ch. Eng. ....*	*2*	*0*	*2*
Ee	31	Alter. Curr.	2	0	2
Ee	33	Elec. Lab.....	0	3	1½
Me	43	Heat Engineering	3	0	3
		Electives	—	—	0-3

Spring Semester

Subject			Hours Rec.	Lab. or Comp.	Cr.
Ch	*50*	*Thesis .....*	*Arr.*		*1-3*
Ch	62	Tech. Anal.....	1	8	4
Ch	80	Indust. Stoichiometry	1	3	2
Ch	82	Chem. Eng. Lab.	1	4	2
Ch	*84*	*Metallurgy .....*	*3*	*0*	*3*
Ch	86	Seminar	1	0	1
Ch	*94*	*Econ. of Chem. and Ch. Eng.....*	*2*	*0*	*2*
Me	40	Mechanical Lab.	0	3	1½
		Electives	—	—	1-5

SUGGESTED ELECTIVE COURSES

Elective Band 1

Ce	35	Hydraulics 2	0	2
Ch	95	Thermodynamics .3	0	3
Mn	101	Adv. Mechanics..2	0	2
Ms	53	Adv. Calculus....3	0	3
Pa	65	Pulp Technology .2	0	2
Pa	87	Paper Testing & Analysis 0	4	2

Elective Band 2

Ce	17	Econ. Geology ...2	0	2
Ms	19	Statistics 2	0	2
Py	81	Mental Measurement 1	4	3

SUGGESTED ELECTIVE COURSES

Elective Band 1

Ce	26	Hydraulics 3	0	3
Ch	96	Electrochemistry	3	0	3
Me	98	Management ...2	0	2
Mn	102	Adv. Mechanics	2	0	2
Ms	54	Adv. Calculus ..3	0	3
Pa	66	Paper Tech.....2	0	2

Elective Band 2

Ms	20	Statistics 2	0	2
Py	82	Mental Measurement 1	4	3

		Elective Band 3					Elective Band 3	
Hy	21	Cur. World Prob.	2	0	2	Hy 22	Cur. World Prob.	2 0 2
Py	81	Mental Measurement	1	4	3	Py 82	Mental Measurement	1 4 3
		Elective Band 4*					Elective Band 4*	
		French or German	Arr.				French or German	Arr.

Credit will not be given for election of courses covering substantially the same ground as another elected or required course that has been passed, i.e., Ce 35 and Ce 26.

Students desiring to elect any course not on a suggested list may do so only with approval of the major instructor. Such free electives will be limited in number.

*Since every university granting the Ph.D. degree requires a reading knowledge of both French and German, it is advisable for the student who may continue with graduate work to be prepared in this respect.

Chemistry Curriculum

The primary aim of the chemistry curriculum is to present the principles and techniques of inorganic, analytical, organic, and physical chemistry. Chemistry graduates will be prepared to undertake the great variety of problems which are the normal duties of a chemist.

The second aim is to develop a research attitude in the student as a preparation for graduate study and ultimately for research, industrial, and teaching positions in the chemical profession. Superior students should give serious consideration to the additional advantages offered by graduate study in chemistry.

Chemists who have graduated from this Department are now holding responsible positions as paint chemist, rubber chemist, consulting chemist, research chemist, university and secondary school teachers of chemistry, development chemist and chemist in U. S. and state experimental laboratories.

The student must register for all courses listed in the first group for each semester unless in exceptional circumstances he is permitted to substitute an approved elective for a course printed in italics. Courses not italicized *must be passed* before he is eligible for graduation.

From the elective list the student must select ten additional credit hours in other sciences, two in English or Public Speaking, and sufficient additional hours to bring his total to that required by the College, namely, 143, exclusive of Military.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 228.

SOPHOMORE YEAR

Fall Semester

Subject			Hours Rec. or Comp.	Lab.	Cr.
Ch	*21*	*Intro. Theoret. Chem.*	*2*	*0*	*2*
Ch	31	Micro-Qual. Anal.	2	8	5
Gm	*19*	*German for Chemists*	*3*	*0*	*3*
Ms	7	Diff. Calculus	5	0	5
Mt	3	Military	2	1	2
Pt	3	Phy. Education	0	2	0
		Electives	—	—	0-4

Spring Semester

Subject			Hours Rec. or Comp.	Lab.	Cr.
Ch	*22*	*Intro. Theoret. Chem.*	*2*	*0*	*2*
Ch	40	Quant. Anal.	1	8	4
Gm	*20*	*German for Chemists*	*3*	*0*	*3*
Ms	8	Int. Calculus	5	0	5
Mt	4	Military	2	1	2
Pb	2	Pub. Speaking	2	0	2
Pt	4	Phy. Education	0	2	0
		Electives	—	—	0-3

Suggested Elective Courses

Elective Band 1

Ps	23	Elec. Meas.	0	4	1½
Zo	3	Animal Biology	2	4	4

Elective Band 2

Es	1a	Prin. of Econ.	3	0	3
Es	1b	Prin. of Econ.	2	0	2

Elective Band 3

Sy	1	Prin. of Sociology	3	0	3

Elective Band 4

Fr	5	Adv. French	3	0	3

Elective Band 5

Eh	7	Second-Yr. Comp.	3	0	3
Pb	1	Pub. Speaking	2	0	2

Suggested Elective Courses

Elective Band 1

Ch	48	Miner. & Crys.	1	4	3
Ps	10	Meteorology	3	0	3
Ps	24	Elec. Meas.	0	4	1½
Zo	4	Animal Biology	2	4	4

Elective Band 2

Ce	12	Econ. Geography	3	0	3
Es	2a	Prin. of Econ.	3	0	3
Es	2b	Prin. of Econ.	2	0	2

Elective Band 3

Sy	2	Prin. of Soc.	3	0	3

Elective Band 4

Fr	6	Adv. French	3	0	3

Elective Band 5

Eh	8	Second-Yr. Comp.	3	0	3

JUNIOR YEAR

Fall Semester

Subject			Hours		
				Lab.	
			Rec. or Comp.		Cr.
Ch	51	Organic Chem.	3	4	5
Ch	71	Phys. Chem.	3	4	5
Eh	5	Technical Comp.	2	0	2
Gm	*21*	*German for Chemists*	*3*	*0*	*3*
		Electives	—	—	0-3

Spring Semester

Subject			Hours		
				Lab.	
			Rec. or Comp.		Cr.
Ch	52	Organic Chem.	3	4	5
Ch	72	Physical Chem.	3	4	5
Eh	10	Modern Lit.	2	0	2
Gm	*22*	*German for Chemists*	*3*	*0*	*3*
		Electives	—	—	0-3

Suggested Elective Courses

Elective Band 1

By	1	Bacteriology and	0	6	3
By	3	Bacteriology	2	0	2
By	5	Bacteriology	0	2	1
Ce	13	Phys. Geology	3	0	3
Ch	97	Methods of Teach. Chem.	2	0	2
Mn	53	Mechanics	3	0	3
Ms	55	Diff. Equations	3	0	3
Pa	65	Pulp Technology	2	0	2
Ps	61	Heat	3	0	3
Ps	65	Vacuum Tubes	2	0	2

Elective Band 2

Es	51	Corp. Finance	3	0	3
Es	73	Labor Problems	3	0	3
Ms	17	Invest. Theory	2	0	2
Py	1	Gen. Psychology	2	2	3

Elective Band 3

Py	1	Gen. Psychology	2	2	3

Elective Band 4

French

Suggested Elective Courses

Elective Band 1

By	2	Bacteriology	0	6	3
Ce	14	Hist. Geology	3	0	3
Ce	16	Geology	2	0	2
Ch	98	Methods of Teach. Chem.	2	0	2
Mn	54	Mechanics	3	0	3
Pa	66	Paper Technology	2	0	2

Elective Band 2

Es	52	Social Con. of Ind.	3	0	3
Ms	18	Invest. Theory	2	0	2
Py	2	Gen. Psychology	2	2	3
Py	12	Advertising	3	0	3

Elective Band 3

Py	2	Gen. Psychology	2	2	3
Py	12	Advertising	3	0	3

Elective Band 4

French

Elective Band 5

Eh	78	Creative Writing	3	0	3

SENIOR YEAR

Fall Semester				*Spring Semester*			
Subject	Hours			Subject	Hours		
	Rec. or	Lab.	Cr.		Rec. or	Lab.	Cr.
Ch 49 Thesis	*Arr.*		*1-3*	*Ch 50 Thesis*	*Arr.*		*1-3*
Ch 61 Adv. Quant. Anal.	1	8	4	*Ch 54 Adv. Inorg. Chem.**	*2*	*0*	*2*
Ch 79 Inorg. Chem. Tech.	2	0	2	Ch 86 Seminar	1	0	1
Ch 85 Seminar	1	0	1	*Ch 92 Adv. Org. Chem.*	*3*	*0*	*3*
Ch 91 Adv. Org. Chem.	*3*	*0*	*3*	*Ch 94 Econ. of Chem. and Ch. Eng.*	*2*	*0*	*2*
Ch 93 Econ. of Chem. and Ch. Eng.	*2*	*0*	*2*	Electives	—	—	6-8
Electives	—	—	3-5				

* *Alternates with Ch 56*

SUGGESTED ELECTIVE COURSES

Elective Band 1

Bc 51 Biochemistry	3	0	3
Bc 57 Biological Colloids	3	0	3
Ce 17 Econ. Geol.	2	0	2
Ch 55 Contemporary Chem.	1	0	1
Ch 73 Chem. Microscopy	0	6	2
Ch 89 Organ. Prepns.	0	4	2
Ch 95 Thermodynamics	3	0	3
Ms 53 Adv. Calculus	3	0	3
Pa 87 Paper Test. & Anal.	0	4	2
Pl 5 Personal Philosophy	3	0	3

Elective Band 2

Ce 17 Econ. Geology	2	0	2
Es 53 Money & Banking	3	0	3
Ms 19 Statistics	2	0	2
Py 81 Mental Measurement	1	4	3

SUGGESTED ELECTIVE COURSES

Elective Band 1

Bc 2 Biochemistry	3	4	5
Ch 74 Chem. Microscopy	0	6	2
Ch 82 Chem. Eng. Lab.	1	4	2
Ch 90 Organ. Analysis	0	4	2
Ch 96 Electrochemistry	3	0	3
Ms 54 Adv. Calculus	3	0	3
Pl 6 Personal Philosophy	3	0	3
Pl 8 Logic	2	0	2

Elective Band 2

Es 16 Business Law	3	0	3
Es 54 Invest. & Invest. Bank.	3	0	3
Me 98 Management	2	0	2
Ms 20 Statistics	2	0	2
Py 82 Mental Measurement	1	4	3

		Elective Band 3				Elective Band 3		
Hy	21	Cur. World Prob.	2	0	2	Hy 22 Cur. World Prob.	2	0	2
Py	81	Mental Measurement	1	4	3	Py 82 Mental Measurement	1	4	3
		Elective Band 4*				Elective Band 4*			
		French				French			
		Elective Band 5							
Eh	9	Modern Lit.	2	0	2				

Credit will not be given for election of courses covering substantially the same ground as another elected or required course that has been passed.

Students desiring to elect any course not on a suggested list may do so only with approval of major instructor. Such free electives will be limited in number.

*Since every university granting the Ph.D. degree requires a reading knowledge of both French and German, it is advisable for the student who may continue with graduate work to be prepared in this respect.

Civil Engineering Curriculum

The object of the curriculum in Civil Engineering is to give the student as thorough a knowledge as possible of the principles underlying the profession.

The methods of instruction are recitations, lectures, original problems, work in the testing laboratories, field practice, and designing. Effort is made to acquaint the student with the best engineering practice and with the standard engineering literature. During each year it is the practice to have several lectures by engineers from other institutions and by those engaged only in practical work. These lectures tend to increase the interest of the student and to bring him in touch with men from outside his own institution.

The endeavor is made to impress upon the mind of the student that he must obtain experience and judgment, without which he can never become a successful engineer. Besides giving the student a technical training, an opportunity is offered for every student to form the basis of a liberal education.

The work of the first year is the same for all engineering students. The technical work begins in the fall semester of the second year with field work and the study of surveying. This technical work is gradually increased until the senior year, when it is nearly all professional. At the beginning of the

senior year an opportunity is offered to elect one of three options. The first, called Option 1, consists of work in hydraulic engineering; the second, Option 2, consists of work in highway engineering; while Option 3 is specialized along the lines of sanitary engineering. Each student is urged to select a thesis, the treatment of which helps to develop initiative and original thought, besides treating in a comprehensive manner some subject in which he is most interested.

All Civil Engineering students are required to attend one Summer Camp of six weeks' duration.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 228.

SOPHOMORE YEAR

Fall Semester					*Spring Semester*				
Subject			Hours Rec.	Lab. or Comp.	Cr.	Subject			Hours Rec.	Lab. or Comp.	Cr.
Ce	1	Plane Surveying	3	0	3	Ce 16		Geology	2	0	2
Ce	3	Field Work & Plotting	0	9	3	Ce 32		Sanitary Eng.	2	0	2
Md	3	Des. Geometry	0	6	2	Ms 8		Int. Calculus	5	0	5
Ms	7	Diff. Calculus	5	0	5	Mt 4		Military	2	1	2
Mt	3	Military	2	1	2	Pb 6		Persuasive Speech	2	0	2
Pb	1	Pub. Speaking	2	0	2	Ps 22		Mechanics & Heat Lab.	0	4	2
Pt	3	Phy. Education	0	2	0	Pt 4		Phy. Education	0	2	0
		Elective	—	—	—			Elective	—	—	—

JUNIOR YEAR

Fall Semester					*Spring Semester*				
Subject			Hours		Subject			Hours	
			Rec. or Comp.	Lab. Cr.				Rec. or Comp.	Lab. Cr.
As 11	Pract. Astron.	2	1½	2½	Ce 20	Structural & Highway			
Ce 9	R.R. Curves & Earthwork	3	0	3		Materials	1	4	3
Ce 23	Adv. Surveying	2	0	2	Ce 26	Hydraulics	3	0	3
Ce 25	Eng. Geology	2	3	3	Ce 52	Theory & Des. of Steel Structures	5	0	5
Ce 29	Highway Const.	2	0	2					
Mn 51	Mechanics	5	0	5	Mn 52	Mechanics	5	0	5
	Elective	—	—	—		Elective	—	—	—

SUMMER CAMP

Subject		Hours. Cr.
Ce 11s	Highway & Railroad Surveys	3
Ce 24s	Geodetic & Topographic Surveying	2
Ce 51s	Hydrographic Surveying	1

SENIOR YEAR

Fall Semester				*Spring Semester*			
Subject		Hours		Subject		Hours	
		Rec. or Comp.	Lab. Cr.			Rec. or Comp.	Lab. Cr.
Ce 57	Conc. Structures & Foundations....5	0	5	Ce 60	Drafting 0	6	2
Ce 59	Drafting 0	9	3	Ee 36	Alt. Currents....2	0	2
Ee 35	D. C. Machy.....2	0	2	Ee 38	Elec. Lab.....0	3	1½
Me 39	Mech. Lab. 0	3	1½	Eh 6	Tech. Comp.....2	0	2
				Es 16	Business Law....3	0	3
	Highway Option				Highway Option		
Ce 53	Hyd. Eng. 0	2	1	Ce 68	Highway Design 0	4	2
Ce 63	Highway Econ....3	0	3	Ce 72	Highway Eng....2	0	2
	Hydraulic Option				Hydraulic Option		
Ce 51	Hyd. Eng. 0	4	2	Ce 56	Hyd. Eng. 0	4	2
Ce 55	Hydrology 2	0	2	Me 78	Hyd. Lab. 0	3	1½
	Sanitary Option				Sanitary Option		
By 3	Bacteriology 2	0	2	By 2	Bacteriology 0	6	3
Ce 71	Water Supply....2	0	2	Ce 74	Sanitary Eng. ...2	0	2

Electrical Engineering Curriculum

This curriculum is intended to provide the student with a thorough understanding of the underlying principles of electrical engineering and to develop an ability to solve problems of an engineering nature from commercial as well as technical premises. To accomplish this, the student first studies the various electrical laws and methods of electrical measurements and correlates them with various laws previously assimilated in the study of physics and mathematics. These studies are followed by more advanced courses involving the fundamental electrical laws and theories and showing their application to the design, operation, and performance of electrical apparatus such as is used in the generation of electrical energy or in transforming electrical energy into mechanical energy for the various commercial requirements.

Courses in communication engineering are offered. These aim to provide the student with a thorough understanding of the basic principles of electrical communication, and to familiarize him with the design and operating characteristics of communication systems and component apparatus. Electrical reproduction of sound for motion pictures is also treated, with some emphasis on architectural acoustics, speech, and hearing. Basic work

in television and the industrial applications of vacuum tubes are made a part of the laboratory work of the Department.

It is the endeavor of the Department to acquaint the student with contemporary engineering practice, and, by persistent association of abstract analysis with practical problems, to equip him with the fundamentals of a successful career. Stress is laid upon the systematic reading of technical periodicals and the acquirement of a reference library. Effort is made to have lectures by active engineers and alumni following their profession, thus bringing the student into more intimate contact with the engineering world.

In addition to the purely electrical subjects, the student takes the customary work in mathematics, physics, mechanics, shop, drawing, and allied engineering courses, together with the humanistic studies enumerated below.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 228.

SOPHOMORE YEAR

Fall Semester

Subject			Hours		
			Rec. or Comp.	Lab.	Cr.
Ee	1	Els. Elec. Eng.	2	5	4
Es	1b	Prin. of Econ.	2	0	2
Md	3	Des. Geometry	0	6	2
Ms	7	Diff. Calculus	5	0	5
Mt	3	Military	2	1	2
Pb	1	Pub. Speaking	2	0	2
Py	1	General Psychology	2	2	3
Pt	3	Phy. Education	0	2	0

Spring Semester

Subject			Hours		
			Rec. or Comp.	Lab.	Cr.
Ee	2	Els. Elec. Eng.	2	5	4
Ce	2	Plane Surveying	1⅔	⅓	2
Es	2b	Prin. of Econ.	2	0	2
Ms	8	Int. Calculus	5	0	5
Mt	4	Military	2	1	2
Pb	6	Persuasive Speech	2	0	2
Py	2	General Psychology	2	2	3
Pt	4	Phy. Education	0	2	0

JUNIOR YEAR

Fall Semester				*Spring Semester*			
Subject	Hours	Lab. Rec. or Comp.	Cr.	Subject	Hours	Lab. Rec. or Comp.	Cr.
Ee 13 Electronics 2		3	3	Ee 16 El. Cir. & Mach. 3		3	4
Ee 15 El. Cir. & Mach...3		0	3	Ee 18 Elec. Lab.....1		3	2½
Ee 17 Elec. Lab.....1		3	2½	Ee 22 Tel. Com.....3		0	3
Eh 5 Tech. Comp. 2		0	2	Ee 24 Tel. Lab.....0		3	1½
Me 27 Kinematics 3		0	3	Me 44 Heat Eng. 3		0	3
Mn 53 Mechanics 3		0	3	Mn 54 Mechanics 3		0	3
Options (One subject required)				Options (One subject required)			
Es 53 Money & Banking 3		0	3	Es 54 Invest. & Invest. Bank. 3		0	3
Me 9 Machine Work...0		4	1½	Es 72 Labor Problems 3		0	3
Ms 53 Adv. Calculus....3		0	3	Me 10 Machine Work..0		4	1½
Ms 55 Diff. Equations...3		0	3	Ms 54 Adv. Calculus...3		0	3

SENIOR YEAR

Subject	Hours	Lab. Rec. or Comp.	Cr.	Subject	Hours	Lab. Rec. or Comp.	Cr.
Ee 51 Alt. Cur. Appar...3		4	5	Options (Six subjects required)			
Ee 75 Elec. Lab.....1		3	2½	Ee 50 Thesis .....Arr.			1-3
Me 45 Heat Eng. 3		0	3	Ee 56 Elec. Power Plants 3		0	3
Options (Two subjects required)				Ee 58 Elec. Power Transm. 2		3	3
Ee 49 Thesis .....Arr.			1-3	Ee 60 Adv. Elec. Mach. 3		0	3
Ee 61 Illum. Eng. 3		0	3	Ee 76 Elec. Lab.....1		3	2½
Ee 63 Elec. Transp.....3		0	3	Ee 84 Tel. Transm.....0		6	2
Ee 81 Comm. Eng.....0		6	2	Ee 86 Radio Eng.....2		2	3
Ee 83 Comm. Lab.....0		3	1½	Ee 88 Radio Lab.....0		3	1½
Ee 85 Radio Eng.....1		2	2	Ee 92 Theory of Elect. 2		0	2
Ee 87 Eng. Acoustics ...2		0	2	Es 16 Business Law ...3		0	3
Ee 91 Theory of Elect...2		0	2	Me 98 Management ...2		0	2
Es 51 Corp. Finance....3		0	3				
Me 41 Mech. Lab.....0		3	1½				

General Engineering Curriculum

This curriculum is designed primarily to permit a selected few, pre-eminently capable students the opportunity of pursuing a curriculum which gives a broad emphasis on the fundamentals of engineering and to develop themselves along lines of particular aptitudes or choice. The first objective is met by including such studies as organic chemistry, qualitative and quantitative analysis, metallurgy, geology, thermodynamics, the laws of the electric circuit, and the theory of structures. In addition to these studies in technical culture, a sequence of studies in any one of several groups in scientific culture, or liberal culture, is afforded.

These elective groups are: (1) mathematics and science, (2) economics and psychology, (3) history, psychology, and sociology, (4) foreign language, (5) literature.

Those students showing marked inventive or research abilities are guided to studies in mathematics and science; those with tendencies for commercial or managerial work are advised to elect the second or third group; and for the students with strong preference for language or literature, the fourth and fifth groups are provided.

Orientation lectures, which engineering freshmen are required to attend, and conferences with faculty advisers during his first year are designed to assist the freshman in the final selection of his course.

This course is also particularly adapted to the needs of the student who prefers to specialize in a graduate rather than in an undergraduate course and can utilize the latter as preparation for the former. In such a case a student at the beginning of the sophomore year would definitely select certain fundamental studies in one of the four departments: Chemical Engineering, Civil Engineering, Electrical Engineering, or Mechanical Engineering, and pursue, during the course, a sequence of studies in that department.

Arrangements have been completed with the department of Economics so that a student starting with certain electives in that department in the sophomore year, would be able to obtain a degree of Master of Science in Economics by an additional fifth year of study, after obtaining the B.S. in General Engineering at the end of four years.

The Dean of the College is the adviser and registering officer for students in this course.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 228.

SOPHOMORE YEAR

Fall Semester					*Spring Semester*				
Subject			Hours		Subject			Hours	
			Lab. Rec. or Comp.	Cr.				Lab. Rec. or Comp.	Cr.
Ch 31	Micro-Qual. Anal.	2	8	5	Ce 16	Geology	2	0	2
Es 1a	Prin. of Econ.	3	0	3	Ch 40	Quant. Anal.	1	8	4
Ms 7	Diff. Calculus	5	0	5	Es 2a	Prin. of Econ.	3	0	3
Mt 3	Military	2	1	2	Ms 8	Int. Calculus	5	0	5
Pb 1	Public Speaking	2	0	2	Mt 4	Military	2	1	2
	Electives					Electives			
Ce 1	Plane Surveying	3	0	3	Ce 2	Plane Surveying	1⅔	1⅓	2
	or					or			
Ee 1	Els. Elec. Eng.	2	5	4	Ee 2	Els. Elec. Eng.	2	5	4

JUNIOR YEAR

Subject			Hours		Subject			Hours	
			Lab. Rec. or Comp.	Cr.				Lab. Rec. or Comp.	Cr.
Ch 71	Phys. Chem.	3	4	5	Ch 72	Phys. Chem.	3	4	5
Eh 5	Tech. Comp.	2	0	2	Eh 10	Mod. Lit.	2	0	2
Es 9	Accounting	2	2	3	Es 10	Accounting	2	2	3
Mn 53	Mechanics	3	0	3	Mn 54	Mechanics	3	0	3
	Electives					Electives			
Ee 13	Electronics	1	3	2½	Ce 26	Hydraulics	3	0	3
Me 27	Kinematics	3	0	3	Ch 76	Els. Chem. Eng.	3	0	3
					Ch 84	Metallurgy	3	0	3

SENIOR YEAR

Subject			Hours		Subject			Hours	
			Lab. Rec. or Comp.	Cr.				Lab. Rec. or Comp.	Cr.
Es 51	Corp. Finance	3	0	3	Ce 52	Theory & Des. of Structures	5	0	5
Me 69	Mech. Lab.	0	3	1½	Es 72	Labor Prob.	3	0	3
Me 79	Heat Eng.	3	0	3	Me 70	Mech. Lab.	0	3	1½
	Electives				Me 80	Heat Eng.	3	0	3
Ch 77	Els. Chem. Eng.	3	0	3		Electives			
Ee 15	El. Cir. & Mach.	3	0	3	Ee 16	El. Cir. & Mach.	3	3	4
Ee 17	Elec. Lab.	1	3	2½	Ee 18	Elec. Lab.	1	3	2½

Mechanical Engineering Curriculum

The field of the mechanical engineer embraces all work involving the design, construction, or installation of machinery, either for manufacturing, transportation, or power generation; the design, manufacture, and installation of heating and ventilating or refrigerating equipment; the superintendence or management of factories, power plants, and motive power; the equipment of railways, and similar work.

The Mechanical Engineering curriculum is arranged to equip men as well as possible in four years' time to enter any of these lines of work.

It is not possible to develop the student into an expert engineer in any branch of the profession. It is also not possible, in general, to foresee what will be his ultimate occupation. Accordingly, those subjects which are fundamental to all engineering work and which may best be learned in college are most emphasized in the required courses, while those subjects which are best acquired in practical work are left for the engineer graduate to obtain in actual practice. An endeavor is made, however, to give the more advanced technical courses such a trend as to make the period of adjustment of the graduate to practical engineering conditions short, and his acquirement of the knowledge necessary for advancement rapid.

The theoretical work is taught by lectures and recitations. The texts are carefully chosen and are supplemented, where necessary to illustrate more recent practice, by explanation and examples given by the instructor. Numerous problems are assigned for work outside the classroom to make sure the student can apply the principles learned.

Courses in the shops and laboratories illustrate the application of matter learned in the recitation work, and also teach methods of construction, operation, and testing of apparatus by direct contact with it. In the drawing rooms, applications of theories to work in design are taught, together with methods and requirements for the production of neat and accurate engineering drawings.

Thorough instruction is given in the theory and operation of both direct and alternating current electrical machinery, with ample practice in the electrical laboratory. Lectures by practical engineers and trips of inspection to engineering works help to bring before the student the conditions existing in practice.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 228.

SOPHOMORE YEAR

Fall Semester

Subject			Hours		
			Rec.	Lab. or Comp.	Cr.
Es	1b	Prin. of Econ.	2	0	2
Md	3	Des. Geometry	0	6	2
Me	1	Foundry & Forging	0	6	2
Me	21	Els. Mech. Eng.	2	0	2
Ms	7	Diff. Calculus	5	0	5
Mt	3	Military	2	1	2
Pb	1	Public Speaking	2	0	2
Ps	21	Mech. & Heat Lab.	0	4	2
Pt	3	Phy. Education	0	2	0

Spring Semester

Subject			Hours		
			Rec.	Lab. or Comp.	Cr.
Es	2b	Prin. of Econ.	2	0	2
Md	4	Adv. Mach. Drafting	0	6	2
Me	2	Pattern Work	0	6	2
Me	38	Mech. Lab.	0	3	1½
Me	32	Materials of Eng.	2	0	2
Ms	8	Int. Calculus	5	0	5
Mt	4	Military	2	1	2
Pb	4	Debate or option	2	0	2
Pt	4	Phy. Education	0	2	0

JUNIOR YEAR

Subject			Hours		
			Rec.	Lab. or Comp.	Cr.
Es	73	Labor Problems or Option	3	0	3
Me	7	Machine Work	0	6	2
Me	55	Kinematics	3	3	4
Me	69	Mech. Lab.	0	3	1½
Me	79	Heat Eng.	3	0	3
Mn	51	Mechanics	5	0	5
Eh	6	Tech. Comp.	2	0	2
Me	8	Machine Work	0	6	2
Me	46	Heat Power or Option	3	0	3
Me	66	Machine Design	2	3	3
Me	70	Mech. Lab.	0	3	1½
Me	80	Heat Eng.	3	0	3
Mn	52	Mechanics	5	0	5

SENIOR YEAR

Fall Semester					*Spring Semester*				
Subject			Hours		Subject			Hours	
			Rec. or Comp.	Lab. Cr.				Rec. or Comp.	Lab. Cr.
Ce 35	Hydraulics	2	0	2	Ee 36	Alt. Currents	2	0	2
Ee 35	D. C. Machy.	2	0	2	Ee 38	Elec. Lab.	0	3	1½
Me 71	Mech. Lab.	0	3	1½	Me 50	Thesis	Arr		3
Me 81	Heat Eng.	2	3	3		(or Option)			
Me 87	Machine Design	0	6	2	Me 72	Mech. Lab.	0	3	1½
Me 91	Heat & Vent.	2	0	2	Me 86	Power Plants	3	0	3
Me 93	Gas Engines	3	0	3	Me 88	Dynamics of Machines	2	3	3
Py 3	App. Psychol.	3	0	3		(or Option)			
	(or Option)				Me 98	Management	2	0	2

Administrative Engineering Option for Mechanical Engineers

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 228.

SOPHOMORE YEAR

Subject			Hours		Subject			Hours	
			Rec. or Comp.	Lab. Cr.				Rec. or Comp.	Lab. Cr.
Es 1a	Prin. of Econ.	3	0	3	Es 2a	Prin. of Econ.	3	0	3
Es 9	Accounting	2	2	3	Es 10	Accounting	2	2	3
Md 3	Des. Geometry	0	6	2	Md 4	Adv. Mach. Drafting	0	6	2
Me 1	Foundry & Forging	0	6	2	Me 2	Pattern Work	0	6	2
Ms 7	Diff. Calculus	5	0	5	Me 32	Materials of Eng.	2	0	2
Mt 3	Military	2	1	2	Ms 8	Int. Calculus	5	0	5
Pb 1	Public Speaking	2	0	2	Mt 4	Military	2	1	2
Pt 3	Phy. Education	0	2	0	Pt 4	Phy. Education	0	2	0

JUNIOR YEAR

Fall Semester					*Spring Semester*				
Subject			Hours		Subject			Hours	
			Rec. or Comp.	Lab. Cr.				Rec. or Comp.	Lab. Cr.
Ee 35	D. C. Machy.	2	0	2	Ee 36	Alt. Currents	2	0	2
Es 53	Money & Banking	3	0	3	Ee 38	Elec. Lab.	0	3	1½
Me 7	Machine Work	0	6	2	Me 8	Machine Work	0	6	2
Me 55	Kinematics	3	3	4	Me 66	Machine Design	2	3	3
Me 69	Mech. Lab.	0	3	1½	Me 70	Mech. Lab.	0	3	1½
Me 79	Heat. Eng.	3	0	3	Me 80	Heat Eng.	3	0	3
Mn 53	Mechanics	3	0	3	Mn 54	Mechanics	3	0	3
					Pb 4	Debate or option	2	0	2

SENIOR YEAR

Subject			Hours		Subject			Hours	
			Rec. or Comp.	Lab. Cr.				Rec. or Comp.	Lab. Cr.
Es 51	Corp. Finance	3	0	3	Eh 6	Tech. Comp.	2	0	2
Es 55	Business Law	3	0	3	Es 54	Invest. & Invest. Bank.	3	0	3
Me 71	Mech. Lab.	0	3	1½	Me 72	Mech. Lab.	0	3	1½
Me 83	Industrial Management	4	0	4	Me 84a	Industrial Eng.	2	0	2
Me 85	Indus. Relations	2	0	2	Me 84b	Industrial Eng. Problems	0	4½	1½
Me 87	Machine Design	0	6	2	Me 90	Eng. Cost Accounting	2	3	3
	Electives	—	—	3-4		Electives	—	—	3-4

Suggested Electives

Me 81	Heat Eng.	2	3	3	Me 50	Thesis	Arr		3
Me 91	Heat & Vent.	2	0	2	Me 86	Power Plants	3	0	3
Me 93	Gas Engines	3	0	3	Me 88	Dynamics of Machines	2	3	3
					Me 94	Hydraulic Machinery	3	0	3

Pulp and Paper Technology Curriculum

This curriculum is offered to furnish training in the fundamentals of mathematics, chemistry, engineering, and pulp and paper technology. The first two years are identical with those under the Chemical Engineering curriculum, but in the junior and senior years the students enrolled take, in part, fundamental courses in mechanics, mechanical, chemical, and electrical engineering, and pulp and paper technology. Pulp and Paper Technology graduates will be prepared to occupy positions as production foremen, salesmen, research chemists, and works-control chemists in pulp and paper plants and in allied industries.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 228.

SOPHOMORE YEAR

Same as Chemical Engineering. See page 229.

JUNIOR YEAR

Fall Semester

Subject			Hours Rec. or Comp.	Lab.	Cr.
Bt	43	Wood Iden.	0	3	1
Ch	51	Organic Chem.	3	4	5
Ch	71	Phys. Chem.	3	4	5
Mn	53	Mechanics	3	0	3
Pa	65	Pulp Tech.	2	0	2
Pa	67	Pulp Mfg. (9 wks.)	0	8	2
		Electives	—	—	0-4

Spring Semester

Subject			Hours Rec. or Comp.	Lab.	Cr.
Ch	52	Organic Chem.	3	4	5
Ch	72	Phys. Chem.	3	4	5
Ch	76	Els. of Chem. Eng.	3	0	3
Mn	54	Mechanics	3	0	3
Pa	66	Paper Tech.	2	0	2
Pa	68	Paper Mfg. (9 wks.)	0	8	2
		Electives	—	—	0-3

Suggested Elective Courses

Elective Band 1

By	1	Bacteriology and	0	6	3
By	3	Bacteriology	2	0	2
By	5	Bacteriology	0	2	1
Ce	13	Phys. Geology....	3	0	3
Ch	61	Tech. Anal.....	1	8	4
Ps	61	Heat	3	0	3

Elective Band 2

Es	51	Corp. Finance	3	0	3
Es	73	Labor Problems ..	3	0	3
Ms	17	Invest. Theory ...	2	0	2
Py	1	Gen. Psychology..	2	2	3

Elective Band 3

Py	1	Gen. Psychology..	2	2	3

Elective Band 4

		French or			
Gm	19	German for			
		Chem.	3	0	3

Suggested Elective Courses

Elective Band 1

By	2	Bacteriology 0		6	3
Ce	14	Hist. Geology ...3		0	3
Ch	62	Adv. Quant.			
		Anal. 1		8	4
Me	66	Machine Design	2	3	3
Ms	56	Diff. Equations..3		0	3

Elective Band 2

Es	52	Social Con. of			
		Ind. 3		0	3
Ms	18	Invest. Theory ..2		0	2
Py	2	Gen. Psychology	2	2	3
Py	12	Advertising 3		0	3

Elective Band 3

Py	2	Gen. Psychology	2	2	3
Py	12	Advertising 3		0	3

Elective Band 4

		French or			
Gm	20	German for			
		Chem. 3		0	3

Elective Band 5

Eh	78	Creative Writing	3	0	3
Pb	4	Debating 2		0	2

SENIOR YEAR

Fall Semester					*Spring Semester*				
Subject			Hours Rec. or Comp.	Lab. Cr.	Subject			Hours Rec. or Comp.	Lab. Cr.
Ch 77	Els. of Chem. Eng.		3	0 3	*Ch 82*	*Chem. Eng. Lab.*	*1*	*4*	*2*
Ch 81	*Chem. Eng. Lab.*	*1*	*4*	*2*	*Ch 94*	*Econ. of Chem. and Ch.E.*	*2*	*0*	*2*
Ch 93	*Econ. of Chem. and Ch.E.*	*2*	*0*	*2*	Ee 36	Alternating Curr.	2	0	2
Ee 35	D. C. Machinery	2	0	2	Ee 38	Elec. Lab.	0	3	1½
Eh 5	Technical Comp.	2	0	2	Me 40	Mechanical Lab.	0	3	1½
Me 43	Heat Engineering	3	0	3	Pa 82	Paper Color (9 wks.)	0	8	2
Pa 85	Cellulose	0	4	2	Pa 86	Pulp Bleach (9 wks.)	0	8	2
Pa 87	Paper Testing	0	4	2	*Pa 50*	*Thesis*	*Arr.*		*1-3*
	Electives	—	—	0-4		Electives	—	—	0-7

Suggested Elective Courses

Elective Band 1

Ce 35	Hydraulics	2	0	2	Ce 26	Hydraulics	3	0	3
Ch 73	Chem.-Microscopy	0	6	2	Ch 74	Chem.-Microscopy	0	6	2
Ch 79	Inorg. Chem. Tech.	2	0	2	Ch 80	Indust. Stoichiometry	1	3	2
Ch 91	Adv. Org. Chem.	3	0	3	Ch 92	Adv. Org. Chem.	3	0	3
Ch 95	Thermodynamics	3	0	3	Ch 96	Thermodynamics	3	0	3
Mn 101	Adv. Mechanics	2	0	2	Me 98	Management	2	0	2
Ms 53	Adv. Calculus	3	0	3	Mn 102	Adv. Mechanics	2	0	2
Pa 49	Thesis	Arr.		1-3	Ms 54	Adv. Calculus	3	0	3

Elective Band 2

Ce 17	Econ. Geology	2	0	2	Ms 20	Statistics	2	0	2
Ms 19	Statistics	2	0	2	Py 82	Mental Measurement	1	4	3
Py 81	Mental Measurement	1	4	3					

		Elective Band 3				Elective Band 3		
Hy	21	Cur. World Prob.	2	0	2	Hy 22 Cur. World Prob.	2	0	2
Py	81	Mental Measurement	1	4	3	Py 82 Mental Measurement	1	4	3
		Elective Band 4				Elective Band 4		
Gm	21	German for Chemists	3	0	3	Gm 22 German for Chemists	3	0	3
		Elective Band 5				Elective Band 5		
Eh	9	Modern Lit.	2	0	2	Eh 10 Modern Lit.	2	0	2
						Pb 12 Bus. & Prof. Speaking	3	0	3

Credit will not be given for election of courses covering substantially the same ground as another elected or required course that has been passed, i.e., Ce 35 and Ce 26.

The student must register for all courses listed in the first group for his year. Courses not italicized in this group *must be passed* before he is eligible for graduation. Courses in italics may have an approved elective substituted for them.

Required for graduation: a total of 143 semester hours exclusive of Military and Physical Training. Three of these hours may be for thesis.

Departments of Instruction

Courses designated by an odd number are given in the fall semester, those designated by an even number, in the spring semester.

A course given in the first semester and duplicated in the second semester is designated by two numbers, the second of which is in parenthesis.

Two-semester courses which may be taken either semester are designated with a period between the two numbers (e.g., 1. 2); if the first semester must be taken before the second can be taken, a semi-colon is used (e.g., 1; 2); if both semesters must be taken to obtain credit, a dash is used (e.g., 1-2).

Courses numbered 1-50 are for undergraduates only; courses numbered 51-100 are primarily for upperclassmen and graduates; courses numbered above 100 are primarily for graduates.

CHEMISTRY AND CHEMICAL ENGINEERING

PROFESSOR BRADT; PROFESSOR BRAUTLECHT; ASSOCIATE PROFESSOR BRANN; ASSOCIATE PROFESSOR JENNESS; ASSISTANT PROFESSOR OTTO; ASSISTANT PROFESSOR GILLILAND; MR. OSBORN; MR. BOGAN; MR. TOMLIN; MR. MARTIN; MR. THOMPSON

1a; 2a. GENERAL CHEMISTRY.—This course deals with the general principles of the science and the elements of qualitative analysis. Classroom (lectures, discussion and demonstrations), *two hours a week;* laboratory, (including recitations), *four hours a week.* One breakage card. *Four credit hours.* MR. BRADT AND MEMBERS OF THE DEPARTMENTAL STAFF

1b; 2b. GENERAL CHEMISTRY.—A course similar to Course 1a; 2a, but for students who have indicated an intention to major in Chemistry or Chemical Engineering. Lecture, *two hours a week;* laboratory, *four hours a week.* One breakage card. *Four credit hours.* Equivalent to 1a, 2a. MR. OSBORN

5. INORGANIC CHEMISTRY.—For Home Economics students only. More of the laboratory time is devoted to drill on inorganic principles than in Course 1a; 2a. Classroom, *two hours a week;* laboratory, *four hours a week.* One breakage card. *Four credit hours.* MR. BOGAN, MR. GILLILAND

21. 22. INTRODUCTORY THEORETICAL CHEMISTRY.—This is an introductory course in the fundamental principles of chemistry designed to prepare

students for physical chemistry. It is recommended to majors in Chemistry and Chemical Engineering as well as other students desiring a second year elective in the Department of Chemistry. Prerequisite, Course 1a, 2a. Classroom, *two hours a week. Two credit hours.* MR. JENNESS

31. MICRO-QUALITATIVE ANALYSIS.—Systematic theoretical and laboratory study of the fundamental principles of analysis as applied to the common cations and anions. Analysis of unknowns. Microtechnique without use of the microscope. Prerequisite, Courses 1a, 2a, or 1b, 2b. Lectures and recitations, *three hours a week to mid-semester and one hour a week thereafter;* laboratory, *eight hours a week.* Two breakage cards. *Five credit hours.* MR. OTTO

40. QUANTITATIVE ANALYSIS.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrolysis methods. Prerequisite, Course 31. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* MR. OTTO

46. SANITARY CHEMISTRY.—For Civil Engineering students taking the Sanitary Engineering option, and other qualified students. (*Two credit hours* only for Chemistry majors.) Fundamental topics of water purification and waste disposal. Prerequisite, Course 1a, 2a. Lectures and recitations, *two hours a week;* laboratory, *three hours a week.* One breakage card. *Three credit hours.* MR. BOGAN, MR. BRANN, MR. GILLILAND

48. MINERALOGY AND CRYSTALLOGRAPHY.—This course is offered only in years of even number. Prerequisite, Chemistry 31. Classroom, *one hour a week;* laboratory, *four hours a week.* One breakage card. *Three credit hours.* MR. CHASE

49. 50. THESIS.—The thesis will embody the result of the study of a special problem in the laboratory. It will partake of the nature of original investigation. Hours arranged. *One to three credit hours.*
THE DEPARTMENTAL STAFF

51; 52. ORGANIC CHEMISTRY.—An introductory course dealing with aliphatic and aromatic compounds. Prerequisite, Course 31 or at least C grades in Courses 1a; 2a or 1b; 2b. Classroom, *three hours a week;* laboratory, *four hours a week.* Two berakage cards. *Five credit hours.*
MR. GILLILAND, MR. BRAUTLECHT

54. ADVANCED INORGANIC CHEMISTRY.—Advanced theoretical and descriptive inorganic chemistry emphasizing periodic relationships. Prerequisite, Chemistry 71. Given in alternate years. Lectures and recitations, *two hours a week. Two credit hours.* MR. OSBORN

55. Contemporary Chemistry.—A study of the contemporary personalities and contributions in the field of chemistry. Prerequisite, Courses 52 and 72. Lecture, *one hour a week. One credit hour.* Mr. Gilliland

56. Structure of Matter. Recent developments in the field of atomic and molecular structure; isotopes; radioactivity; etc. Prerequisite, Course 71. Given in alternate years. Not given 1937-38. Lectures and recitations, *two hours a week. Two credit hours.* Mr. Bogan

61. Advanced Quantitative Analysis.—A continuation of Course 40, taking up some of the more difficult volumetric and gravimetric methods. Designed particularly for chemists. Prerequisite, Course 40. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* Mr. Brann, Mr. Bogan

62. Technical Analysis.—The analysis of certain technical products of particular interest to chemical engineers. Prerequisite, Course 40. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* Mr. Brann, Mr. Bogan

71; 72. Physical Chemistry.—This is a course in the detailed study of fundamental principles of chemistry and the application of them to various fields. Lecture, recitations, and laboratory. Prerequisites, Course 40 and Physics 1b; 2b. Calculus is very desirable. Classroom, *three hours a week;* laboratory, *four hours a week.* One breakage card. *Five credit hours.* Mr. Brann, Mr. Tomlin

73; 74. Chemical Microscopy.—The technique of handling and analyzing samples of very small size. Chemical and physical changes, crystalline form, density and refractive index observed under the microscope. Unknowns, permanent slides, microphotographs, micromeasurements, etc. Open only to exceptional students. Prerequisite, Course 40. Laboratory (including recitations), *six hours a week.* One breakage card. *Two credit hours.* Mr. Otto

75. Principles of Metallography.—The microstructure of ferrous and non-ferrous metals and alloys with emphasis on the principles of equilibrium and physical chemistry as related to their properties. Open only to exceptional students. Prerequisite, Course 72. Lectures and recitations, *two hours a week. Two credit hours.* Mr. Bradt

76; 77. Elements of Chemical Engineering.—A study of the application of unit operations to engineering practice such as heat transfer, evaporation, and distillation. Prerequisite, Course 71. Classrom, *three hours a week. Three credit hours.* Mr. Caulfield

79. Inorganic Chemical Technology.—The course includes sufficient descriptive matter concerning selected industrial processes, illustrative in part of unit operations in the production of ammonia, sulfuric acid, paints, etc., to enable the solution of plant problems incident to these processes. Prerequisite, Course 72. Classroom, *two hours a week. Two credit hours.*

Mr. Martin

80. Industrial Stoichiometry.—A course designed to make the student proficient in industrial chemical calculations, other than those involved in unit operations. Prerequisites, Courses 51, 71. Classroom, *one hour a week;* computations, *three hours a week. Two credit hours.* Mr. Martin

81. 82. Chemical Engineering Laboratory.—The practice in unit operations and processes, particularly those emphasized in Courses 76, 77. Form reports are an essential part. Prerequisite, Course 76. Classroom, *one hour a week;* laboratory, *four hours a week. Two credit hours.*

Mr. Martin, Mr. Caulfield

84. Metallurgy.—A descriptive course dealing with ferrous and non-ferrous metals and alloys. Prerequisite, Course 1a; 2a or 1b; 2b. Chemistry and Chemical Engineering students taking this course will be expected to work advanced problems and must offer as prerequisites, Courses 71, 72. Classroom, *three hours a week. Three credit hours.* Mr. Martin

85. 86. Seminar.—A study of chemical literature and chemical methods. Prerequisite, Courses 52 and 72. Classroom, *one hour a week. One credit hour.* Mr. Bradt

89. Organic Preparations.—The preparation of a large number of typical organic compounds. Prerequisite, Course 51; 52. Laboratory, *four hours a week. Two credit hours.* Mr. Gilliland

90. Organic Analysis.—Identification of pure organic compounds and the technique of preparing derivatives and manipulating small quantities of substances. Courses 40, 51, and 52 are prerequisites. Laboratory, *four hours a week. Two credit hours.* Mr. Gilliland

91. 92. Advanced Organic Chemistry.—A course involving the general and also special topics of organic chemistry. Prerequisite, Course 51; 52. Recitation, *three hours a week. Three credit hours.* Mr. Gilliland

93; 94. Economics of Chemistry and Chemical Engineering.—Economic relationships of chemistry as applied in industry; designed to acquaint the student with fundamentals pertaining to the supply and demand of chemical products; production and distribution costs, prices, markets; plant location and design, evolution of the chemical industries, unit process costs, management, operation and control. Text, problems, reports, and current

journal assignments. Prerequisite, Course 71. Classroom, *two hours a week. Two credit hours.* MR. BRAUTLECHT

95. THERMODYNAMICS.—A brief study of the laws of thermodynamics as applied to chemical problems. Prerequisite, Courses 71 and 72. Classroom, *three hours a week. Three credit hours.* MR. BRANN

96. ELECTROCHEMISTRY.—A brief review of the theory followed by a study of the more important industrial applications. Prerequisite, Courses 71 and 72. Classroom, *three hours a week. Three credit hours.* MR. BRANN

97. 98. METHODS OF TEACHING CHEMISTRY.—A course for prospective teachers of chemistry which includes administration, supervision, costs; laboratory arrangement, equipment, maintenance and supplies; preparation of solutions, demonstrations, lesson plans, testing programs; texts, laboratory manuals; grading and scoring; bibliography. Text, problems, and journal assignments. For juniors, seniors, and graduate students. Prerequisite, Course 1a; 2a, or equivalent. Classroom, *two hours a week. Two credit hours.* MR. BRAUTLECHT

101. 102. INVESTIGATIONS IN ORGANIC CHEMISTRY.—*Time arranged. One to three credit hours* STAFF

103. 104. INVESTIGATIONS IN PHYSICAL CHEMISTRY.—*Time arranged. One to three credit hours.* STAFF

105. 106. INVESTIGATIONS IN ANALYTICAL CHEMISTRY.—*Time arranged. One to three credit hours.* STAFF

107. 108. INVESTIGATIONS IN INORGANIC CHEMISTRY.—*Time arranged. One to three credit hours.* STAFF

109. 110. INVESTIGATIONS IN CHEMICAL ENGINEERING.—*Time arranged. One to three credit hours.* STAFF

Equipment obtained and receipted for by a student and not returned at the end of a course in good condition, as well as a few non-returnable supplies and a few special chemicals, will be charged to the student at cost. The supply room will be open during all laboratory periods. Breakage cards may be obtained only at the Treasurer's office, and all students taking chemical laboratory courses are required to have one or more. The unused balance is redeemable at the Treasurer's office, after obtaining clearance at the chemistry storeroom.

For courses in biochemistry, see the description of courses given by the Department of Bacteriology and Biochemistry.

For requirements leading to the degree of Bachelor of Arts in Chemistry, see section devoted to the College of Arts and Sciences.

CIVIL ENGINEERING

PROFESSOR EVANS; PROFESSOR SPRAGUE; ASSOCIATE PROFESSOR LYON; ASSOCIATE PROFESSOR LEAVITT; ASSISTANT PROFESSOR CHASE; MR. STEPHENSON; MR. BENNETT; MR. LENDO

1. PLANE SURVEYING.—Recitations and lectures covering the general theory of plane surveying and plotting. A study of surveying instruments, their adjustments and use, followed by a study of the methods commonly used for surveying and plotting. Classroom, *three hours a week. Three credit hours.*

MR. STEPHENSON

2. PLANE SURVEYING.—Recitations and lectures covering surveying instruments and their use followed by a discussion of the various methods commonly used for Plane Surveying. Prerequisite, Mathematics 1. Classroom, *two hours a week for twelve weeks;* field work, *three hours a week* and classroom *one hour a week for six weeks. Two credit hours.*

MR. STEPHENSON

3. FIELD WORK AND PLOTTING.—This course consists of practice in the use of the tape, compass, transit, and level, followed by practice in the common methods of map drawing. Field and drawing room, *nine hours a week. Three credit hours.*

MR. STEPHENSON, MR. LENDO

4. SURVEYING.—The historical background of surveying, the legal principles involved when surveys and resurveys are made, and the common methods employed will be emphasized. Not open to students who have had other surveying coures. Classroom, *two hours a week;* field and office, *two hours a week. Three credit hours.*

MR. STEPHENSON

6. LAND SURVEYING.—This course is designed to familiarize the student with the methods employed by the General Land Office for laying out public lands and with such other methods as may have been used by the various states. Prerequisites, Courses 1 and 3. Classroom, *two hours a week;* field work, *nine hours a week during the last six weeks. Three credit hours.*

MR. STEPHENSON

8. CONSTRUCTION SURVEYING.—A course covering the various problems which the man surveying for various types of construction encounters. The legal aspect of surveying, methods employed, and the necessary computations are studied. Prerequisites, Courses 1 and 3. Classroom, *two hours a week;* field work, *nine hours a week during the last six weeks. Three credit hours.*

MR. LYON

9. RAILROAD CURVES AND EARTHWORK.—A course of recitations and lectures investigating the geometry of railroad curves, switches, and turn-

outs; also the field and office practice of staking out and computing earthwork, and the methods and materials of railroad construction, subgrade, roadbed, track and track work. Prerequisites, Courses 1 and 3. Classroom, *three hours a week. Three credit hours.* MR. LYON

12. ECONOMIC GEOGRAPHY.—Deals with the principles of geography, especially applied to the common economic products, treating their distribution, characteristics, and uses. Classroom, *three hours a week. Three credit hours.* MR. CHASE

13. PHYSICAL GEOLOGY.—Introduction to general dynamical geology; it covers the materials, agents and processes of geology. Classroom, *three hours a week. Three credit hours.* MR. CHASE

14. HISTORICAL GEOLOGY.—A review of the Earth's History; its past land distribution, mountain revolutions, rocks, climates, and living forms. Classroom, *three hours a week. Three credit hours.* MR. CHASE

16. GEOLOGY.—Introduction to geological materials, agents and processes of particular interest to the Engineer. Classroom, *two hours a week. Two credit hours.* MR. CHASE

17. ECONOMIC GEOLOGY.—Introduction to ore deposits; their characteristics, distribution, production, and uses of both metals and non-metals. Classroom, *two hours a week. Two credit hours.* MR. CHASE

20. STRUCTURAL AND HIGHWAY MATERIALS.—Laboratory and recitations covering the methods of testing, characteristics of and specifications for the materials commonly used for structural and highway purposes. Classroom, *one hour a week;* laboratory, *four hours a week. Three credit hours.* MR. LEAVITT, MR. SPRAGUE, MR. STEPHENSON, MR. LENDO

23. ADVANCED SURVEYING.—This course consists of lectures, readings, and recitations on the theory and practice of base line measurement, triangulation, precise leveling, topographical surveying, hydrographic surveying, the use of the plane table and sextant, the theory and application of least squares, and map projection. Prerequisites, Courses 1 and 3. Lecture, recitation, and problems, *two hours a week. Two credit hours.* MR. LYON

25. ENGINEERING GEOLOGY.—Characteristics of building stones and other earth features with which the Civil Engineer deals. Prerequisite, Course 16. Classroom, *two hours a week;* laboratory, *three hours a week. Three credit hours.* MR. CHASE

26. HYDRAULICS.—Fundamental data; hydrostatics; theoretical hydraulics; instruments and observations; theoretical and actual flow through orifices, weirs, tubes, pipes, and conduits; dynamic pressure of water. Prerequisite, Mechanics 51. Classroom, *three hours a week. Three credit hours.* MR. LYON

29. HIGHWAY CONSTRUCTION.—The construction and maintenance of city pavements and country roads under various conditions of traffic, climate, soil, etc. Prerequisites, Courses 1 and 9. Recitation, *two hours a week. Two credit hours.* MR. LEAVITT

32. SANITARY ENGINEERING.—The general principles of sewer design and construction, and sewage disposal; a study of city sanitation. Classroom, *two hours a week. Two credit hours.* MR. SPRAGUE

35. HYDRAULICS.—A short course which includes the main principles given in Course 26. Given to students in the Departments of Mechanical and Electrical Engineering. Prerequisite, Mechanics 51. Classroom, *two hours a week. Two credit hours.* MR. LYON

49. 50. THESIS WORK.—The study of and report upon some original investigation or design. *Time to be arranged.* See regulations regarding degrees. *Two or three credit hours.* MR. EVANS AND STAFF

51. HYDRAULIC ENGINEERING, OFFICE WORK.—From notes previously taken in the field, rating curves and vertical velocity curves are plotted and studied and discharge measurements are computed; also problems in hydrology, water storage, and water power are studied. Prerequisites, Courses 26 and 51s. Course 55 must be concurrent. Drawing room, *four hours a week. Two credit hours.* MR. LYON

52. THEORY AND DESIGN OF STEEL STRUCTURES.—This course involves the determination of stresses and strain in beams, girders, and trusses under the usual systems of loading. Students are required to make a complete design of several types of structures. Prerequisite, Mechanics 51. *Five hours a week. Five credit hours.* MR. EVANS

53. HYDRAULIC ENGINEERING, OFFICE WORK.—A course similar to but shorter than Course 51. Prerequisites, Courses 26 and 51s. Drawing room, *two hours a week. One credit hour.* MR. LYON

55. HYDROLOGY.—A study of stream-flow as applied to water-power development; rainfall; evaporation; run-off; methods of obtaining data with a study of their use. Prerequisite, Course 26. Classroom, *two hours a week. Two credit hours.* MR. LYON

56. HYDRAULIC ENGINEERING.—A continuation of Courses 51 and 55. The development and utilization of water power; the modern turbine; inspection of hydro-electric plants. Drawing room, *four hours a week. Two credit hours.* MR. LYON

57. CONCRETE STRUCTURES AND FOUNDATIONS.—This course covers the design and construction of plain and reinforced concrete structures with due consideration for preparing the foundation to receive such structures. Prerequisite, Mechanics 51. *Five hours a week. Five credit hours.* MR. EVANS

59. DRAFTING.—This course consists of detailing the structures designed in Course 52. Drawing room, *nine hours a week. Three credit hours.* MR. SPRAGUE

60. DRAFTING.—The structures designed in Course 57 are detailed in this course. *Six hours a week. Two credit hours.* MR. SPRAGUE

62. SOIL MECHANICS.—A study of the fundamental principles underlying Soil Mechanics with application to practical foundation problems. Prerequisite, Mechanics 51 or 53. Classroom, *three hours a week for the first eight weeks. One and one-half credit hours.* MR. BENNETT

63. HIGHWAY ECONOMICS.—State highway and municipal highway management as they affect organization, administration, and finance of streets and highways; economic factors of highway location, design, and operation; traffic and operation expenses. Prerequisites, Courses 29 and 11s. *Three hours a week. Three credit hours.* MR. LEAVITT

68. HIGHWAY DESIGN.—Drawing room study of highway location and relocation, including plans of proposed improvement and construction of about five miles of highway with detailed estimates and specifications for the same. Also design of street intersections. Prerequisite, Course 63. Drawing room, *four hours a week. Two credit hours.* MR. LEAVITT

71. WATER SUPPLY.—This course deals with the requirements of a community for pure drinking water. It makes a study of sources of supply, quality, and purification of water; the engineering works necessary for its transportation; water-borne diseases; fire service. Prerequisite, Course 32. Classroom, *two hours a week. Two credit hours.* MR. SPRAGUE

72. HIGHWAY ENGINEERING.—An advanced course of lectures and recitations on various highway problems; general survey of higher types of pavements; city planning; specifications; cost keeping; maintenance and repair work as discussed in engineering periodicals. Prerequisite, Course 63. Classroom, *two hours a week. Two credit hours.* MR. LEAVITT

74. SANITARY ENGINEERING.—Lectures and recitations dealing with municipal and rural sanitation. Sanitation of milk and other foods; control of mosquitoes, flies, and rodents. Prerequisite, Course 32. Classroom, *two hours a week. Two credit hours.* MR. SPRAGUE

79. STRUCTURAL GEOLOGY.—Principles and characteristics of earth structures. Prerequisite, Course 25. Classroom, *two hours a week. Two credit hours.* MR. CHASE

82. ADVANCED ENGINEERING GEOLOGY.—Application of geology to engineering construction. Prerequisite, Course 25. Classroom, *three hours a week. Three credit hours.* MR. CHASE

102. THEORY OF STRUCTURES.—This course involves the determination of stresses in statically indeterminate structures. It is a continuation of Course 52 and is open only to those men who have passed that course or its equivalent satisfactorily. Classroom, *three hours a week. Three credit hours.*

MR. EVANS

Courses To Be Offered at Summer Camp

7s. HIGHWAYS AND RAILROADS.—Preliminary and location surveys for railways and highways, particularly forest highways. Grades are established and grade stakes set. The preparation of maps from notes previously taken and calculations of earthwork. Trail location and construction. Prerequisites, Courses 1 and 3. *Two credit hours.*

11s. HIGHWAY AND RAILROAD SURVEYS.—This course consists of making preliminary and location surveys for a highway and a railroad, each approximately two miles in length, establishing grades and setting grade stakes. The notes are plotted and calculations are made as to the amount of earthwork. Prerequisites, Courses 1, 3, and 9. *Three credit hours.*

24s. GEODETIC AND TOPOGRAPHIC SURVEYING.—This field work consists of making topographic surveys with the transit and plane table, including triangulation, the use of sextant, trigonometric levelling and the traverse plane table. The drafting room work consists of making computations and drawings necessary to interpret the results of the field observations. Prerequisites, Courses 1, 3, and 23. *Two credit hours.*

51s. HYDROGRAPHIC SURVEYING.—(a) *Stream Gauging.* This course is planned to instruct the student in the principles underlying the measurement of flow of water in open channels. (b) *Soundings.* This part of the course takes up the methods of making soundings and practices the use of surveying instruments for locating them. Prerequisite, Course 26. *One credit hour.*

ELECTRICAL ENGINEERING

PROFESSOR BARROWS; PROFESSOR HILL; ASSOCIATE PROFESSOR CREAMER; ASSISTANT PROFESSOR ROBERTS; MR. CRABTREE; MR. BLISS

1; 2. ELEMENTS OF ELECTRICAL ENGINEERING.—Fundmental laws and principles of electricity; series and parallel circuits; the magnetic circuit; dielectric circuit; conduction through electrolytes and gases; thermionics; instrument calibration; electrical measurements. Recitations and problems.

Classroom, *two hours a week;* computation, *three hours a week;* laboratory, *two hours a week. Four credit hours.*

MR. BARROWS, MR. CREAMER, MR. BLISS

5a; 6a. HOUSEHOLD EQUIPMENT.—Physical principles, use, and selection of various household appliances. Elementary principles of heat and electricity, household heating and ventilating systems, laundry procedure, refrigerators, all types of kitchen ranges, and all small electrical appliances are considered. Course intended for senior Home Economics students. Lectures, recitations, and laboratory. Classroom or laboratory, *two two-hour periods a week.* Fall semester, *three credit hours.* Spring semester, *two credit hours.* MR. BLISS

13. ELECTRONICS.—The theory of electron tubes; hard vacuum diodes, triodes, tetrodes, pentodes, photocells, etc.; gaseous tubes utilizing neon, argon, and mercury vapor; arcs, corona, and other discharges; tube detectors, amplifiers, oscillators, and associated circuits; functioning of the dynatron and magnetron; crystal and magneto-striction oscillators; electrical measurements; industrial applications. Prerequisite, Course 2. Course 15 is required concurrently. Classroom, *two hours a week;* laboratory, *three hours a week. Three credit hours.* MR. CRABTREE

15; 16. ELECTRIC CIRCUITS AND MACHINERY.—Fundamental theory of sinusoidal alternating currents, including representation by vectors and solutions by trigonometric and algebraic methods. Underlying principles and circuit problems common to all types of electrical apparatus; design and performance of direct-current machinery. Theory of polyphase alternating-current systems, non-sinusoidal wave forms, and electrical transmission. Introduction to the analysis of transient phenomena. Lectures, recitations, and problems. Prerequisite, Course 2. Fall semester: classroom, *three hours a week. Three credit hours.* Spring semester: classroom, *three hours a week.* Computation, *three hours a week. Four credit hours.* MR. HILL

17; 18. ELECTRICAL LABORATORY.—Electrical measurements; operation and testing of direct-current generators and motors. Introductory experiments of alternating-current circuits and machines. Application of the work of Courses 1, 2, 15, and 16. Prerequisite, Course 2; Courses 15 and 16 are concurrent. Classroom, *one hour a week;* laboratory, *three hours a week. Two and one-half credit hours.* MR. ROBERTS, MR. CRABTREE

22. TELEPHONE COMMUNICATION.—Characteristics of speech: the hearing mechanism; mechanical and electrical characteristics of telephone apparatus; the subscriber's set; common battery and local battery circuits; dial systems; repeaters; traffic studies. Lectures and recitations. Prerequisite, Course 15. Course 24 is required concurrently. Classroom, *three hours a week. Three credit hours.* MR. BLISS

24. TELEPHONE LABORATORY.—Microphonic efficiency of telephone apparatus; measurements of articulation and audition; local and common battery systems; phantom and composite circuits; repeaters; transmission testing. Course 22 is required concurrently. Laboratory, *three hours a week. One and one-half credit hours.* MR. BLISS

30 (35). DIRECT CURRENT MACHINERY.—Electrical principles and applications; the production, distribution, and utilization of power from the standpoint of the civil, mechanical, and chemical engineer. Recitations and problems. Classroom, *two hours a week. Two credit hours.*
MR. ROBERTS, MR. CRABTREE

31 (36). ALTERNATING CURRENTS.—Alternating current measurements and calculations; operation of generators and motors. Lectures, recitations, and problems. Prerequisite, Course 30 or 35. Classroom, *two hours a week. Two credit hours.* MR. ROBERTS, MR. CRABTREE

33 (38). ELECTRICAL LABORATORY.—This course is based on Courses 30, 31, 35, and 36. Operations of direct-current and alternating-current generators and motors; electrical power measurements. Prerequisite, Course 30 or 35; Course 31 or 36 concurrent. Laboratory, *three hours a week. One and one-half credit hours.* MR. ROBERTS, MR. CRABTREE

49. 50. THESIS WORK.—The study of and report upon some original investigation or design. *Time to be arranged.* See regulations regarding degrees. *One to three credit hours.* MR. BARROWS, MR. HILL, MR. CREAMER

INSPECTION TRIP.—About a week's trip visiting some of the electrical and industrial plants of New England. MR. BARROWS

51. ALTERNATING-CURRENT APPARATUS.—Continuation of Course 16. Theory, construction, and operating characteristics of alternating-current apparatus and machinery. Polyphase apparatus; generation, distribution, and utilization of polyphase power. Lectures, recitations, and problems. Prerequisite, Course 16. Classroom, *three hours a week;* computation, *four hours a week. Five credit hours.* MR. BARROWS

56. ELECTRICAL POWER PLANTS.—Electrical equipment of power plants, methods of control, switching, protection, lightning arresters; arrangement of station and substation machinery, apparatus, and switchboards. Lectures and recitations. Prerequisites, Courses 15, 16, and 51. Classroom, *three hours a week. Three credit hours.* MR. BARROWS

58. ELECTRICAL POWER TRANSMISSION.—Theory, design, and calculation of power-transmission systems. Problems of inductive interference, insulation, protection, stability, and control. Lectures, recitations, and prob-

lems. Prerequisites, Courses 16 and 51. Classroom, *two hours a week;* supervised computation, *three hours a week. Three credit hours.*

MR. ROBERTS

60. ADVANCED ELECTRICAL MACHINERY.—Analysis of windings and magnetic circuits of electric power apparatus. Advanced problems on flux distribution, commutation, heat paths, air flow, and mechanical stresses. Design of alternating-current machinery. Predetermination of performance characteristics. Lectures and problems. Prerequisite, Course 51. Classroom, *three hours a week. Three credit hours.* MR. HILL

61. ILLUMINATING ENGINEERING.—Different types of lamps; light, photometry, illumination calculations, and problems of interior and exterior illumination. Lectures, recitations, and problems. Classroom, *three hours a week. Three credit hours.* MR. BARROWS

63. ELECTRICAL TRANSPORTATION.—Mechanics of vehicle movement; estimates of power and energy requirements of trains and other transportation units. Engineering and economic principles governing the selection and design of electrical equipment for railways, buses, elevators, and ships. Lectures, recitations, and problems. Prerequisite, Course 15, 16. Course 51 is concurrent. Classroom, *three hours a week. Three credit hours.* MR. HILL

75; 76. ELECTRICAL LABORATORY.—Alternating-current instruments and measurements; experimental work on single-phase circuits and polyphase systems. Operation and testing of alternating-current generators, motors, transformers, and converters. Prerequisites, Courses 15, 16, 17, and 18; Course 51 is concurrent. Classroom, *one hour a week;* laboratory, *three hours a week. Two and one-half credit hours.* MR. ROBERTS

81. COMMUNICATION ENGINEERING.—Network theory; equivalent circuits; filters; public-address systems; sound pictures; carrier-current systems. Lectures and problems. Prerequisite, Course 22. Computation, *six hours a week. Two credit hours.* MR. CREAMER

83. COMMUNICATION LABORATORY.—Advanced measurements on communication apparatus; repeaters; carrier-current systems; audio-frequency amplifiers; filters; transformers; public-address systems. Prerequisite, Course 22. Course 81 is required concurrently. Laboratory, *three hours a week. One and one-half credit hours.* MR. BLISS

84. TELEPHONE TRANSMISSION.—Application of hyperbolic functions to transmission line problems; transmission of speech over cable and open wire circuits; loaded lines; design of artificial lines. Lectures and problems. Prerequisite, Course 81. Computation, *six hours a week. Two credit hours.*

MR. CREAMER

85; 86. RADIO ENGINEERING.—Detailed study of inductance coils, condensers, and resistors for radio frequencies; vacuum-tube theory; extended analysis of oscillatory circuits and methods of excitation; radiation and transmission phenomena; comparisons of methods of transmission and reception; theory of modulation; radio measurements. Lectures, recitations, and design problems. Prerequisite, Course 22. Fall semester: classroom, *one hour a week;* computation, *two hours a week. Two credit hours.* Spring semester: classroom, *two hours a week;* computation, *two hours a week. Three credit hours.*

MR. CREAMER

87. ENGINEERING ACOUSTICS.—This course, which is closely correlated with Courses 81, 85 and 86, deals with studio and theater acoustics, and the dynamical systems of microphones, receivers, and loud speakers. Lectures, recitations, and problems. Prerequisite, Course 22. Classroom, *two hours a week. Two credit hours.*

MR. CREAMER

88. RADIO LABORATORY.—Use of wave-meters; radio-frequency amplifiers; tests of tube transmitters and receivers; continuous wave and radiophone transmission at various frequencies; radio directionals; field strength measurements. Course 86 is required concurrently. Laboratory, *three hours a week. One and one-half credit hours.*

MR. CRABTREE

91; 92. THEORY OF ELECTRICITY.—A study of the more advanced mathematical and physical theories of electricity with reference to their engineering applications. Wave propagation, radiation, gaseous conduction, and the analysis of transient phenomena by the methods of Heaviside's operational calculus. Problems, conferences, and seminar. Either or both semesters. *Two credit hours.*

MR. CLOKE, MR. HILL

156. ADVANCED ELECTRICAL POWER PLANTS.—Study of the latest designs and methods of central station practice. Location, parallel operation, super-power practice, and economics. Lectures, studies, and problems. Prerequisites, Courses 51, 56, and 76. Classroom, *two hours a week. Two credit hours.*

MR. BARROWS

157; 158. ADVANCED ELECTRICAL POWER TRANSMISSION.—A detailed study of the advanced theory of electric power circuits in the normal steady state and under transient and unbalanced conditions. Analysis of the performance of transmission systems, distribution networks, and connected apparatus. Engineering and economic problems of design, construction, and operation. Lectures, analytical studies, and problems. Prerequisite, Course 58. Classroom, *two or three hours a week. Two or three credit hours.*

MR. HILL

165; 166. ADVANCED THEORY OF ELECTRICAL MACHINERY.—Analytical study of electrical machinery with emphasis on methods useful in research

and development. Analysis of behavior in transient states and under abnormal condition of operation. Lectures, problems, seminar papers, and reviews. Prerequisite, Course 60. Course 175 is concurrent. Classroom, *two or three hours a week. Two or three credit hours.* MR. HILL

175. ELECTRICAL LABORATORY.—Advanced tests of electrical machines and circuits as related to design and development. Performance studies involving the use of the oscillograph. Prerequisites, Courses 51, 60, and 76. Course 165 is concurrent. Classroom, *one hour a week;* laboratory, *three hours a week. Two and one-half credit hours.* MR. BARROWS

185. COMMUNICATION NETWORKS.—Advanced study of passive networks, including filters and attenuation equalizers; transformer and transition losses; high quality circuits used as an adjunct to radio broadcasting; advances in communication from study of current technical literature. Lectures, reports, and problems. For graduate students who have specialized in electrical communication. Classroom, *two hours a week. Two credit hours.* MR. CREAMER

186. HIGH FREQUENCY PHENOMENA.—Advanced analytical treatment of topics considered in Courses 85 and 86 including circuits, apparatus and radiation phenomena. For graduate students having a knowledge of differential equations and of vector analysis. Prerequisite, Courses 85 and 86. Classroom, *two hours a week. Two credit hours.* MR. CREAMER

187. RADIO SEMINAR.—A thorough, critical study of a limited number of important current developments in radio engineering. For graduate students who have specialized in electrical communication. Prerequisite, Courses 85 and 86. Classroom, *two hours a week. Two credit hours.* MR. CREAMER

188. CIRCUITS LABORATORY.—Experimental work based on theory treated in Course 185; oscillographic study of speech sounds and modulation; detection and elimination of speech distortion in amplifiers. Prerequisite, Course 185. Laboratory, *three hours a week. One and one-half credit hours.* MR. CREAMER

ENGINEERING DRAFTING

PROFESSOR KENT; ASSISTANT PROFESSOR DUNHAM; ASSISTANT PROFESSOR SAWYER

1. FUNDAMENTALS OF DRAFTING.—Instruction and practice in technical sketching and lettering, in the care of drawing instruments, and their

use in elementary problems involving right lines, circles, irregular curves, and orthographic projections. Drawing room, *four hours a week. Two credit hours.* MR. KENT, MR. DUNHAM, MR. SAWYER

2. ELEMENTARY MACHINE DRAFTING.—A continued study of the methods of orthographic projection, isometric projection, and oblique projection, accompanied by instruction and practice in the making of working drawings and tracings. Drawing room, *four hours a week. Two credit hours.* MR. KENT, MR. DUNHAM, MR. SAWYER

2a. DRAFTING.—Continuation of orthographic projections, with isometric and perspective projections, topographical symbols and their application, map reproduction and enlarging, and blueprinting. Drafting room, *four hours a week, two credit hours.* MR. SAWYER, MR. DUNHAM

3. DESCRIPTIVE GEOMETRY.—The elementary principles and problems of descriptive geometry, including intersections and developments. Recitation and drawing room, *six hours a week. Two credit hours.*
MR. KENT, MR. DUNHAM, MR. SAWYER

4. ADVANCED MACHINE DRAFTING.—A continued study of the making of working drawings of simple machines, together with instruction and practice in blueprinting. Drawing room, *six hours a week. Two credit hours.* MR. KENT, MR. DUNHAM, MR. SAWYER

9; 10. AGRICULTURAL DRAFTING.—A course designed especially for students in Agriculture and for others who are not engineers. It combines the fundamental principles of Courses 1 and 2. Drawing room, *four hours a week. Two credit hours.* MR. KENT

53a (54a). SHADES AND SHADOWS.—A study of the principles of the casting of shadows on and by architectural objects. A half-semester course. Drafting room, *four hours. One credit hour.* MR. KENT

53b (54b). PERSPECTIVE.—A study of the principles of architectural perspective and the making of the same. A half-semester course. Drafting room, *four hours. One credit hour.* MR. KENT

LECTURE COURSES

Gc 5. ORIENTATION.—A course of lectures by members of the staff of the College and other faculty members for Technology freshmen. Designed to better acquaint them with the different fields of study and the opportunities in these fields. Given Wednesday afternoons at 4:15 throughout the first semester. *One-half credit hour.* MR. WATSON, MR. CLOKE

Gc 6. ORIENTATION.—A general lecture course given Wednesday afternoons at 4:15 throughout the second semester, consisting of addresses by engineers and business and professional men for Technology freshmen. Open to the public. *One-half credit hour.* MR. WATSON, MR. CLOKE

MECHANICAL ENGINEERING

PROFESSOR SWEETSER; ASSOCIATE PROFESSOR WATSON; ASSISTANT PROFESSOR PRAGEMAN; MR. DAVEE; MR. PERKINS; MR. SPARROW; MR. TYRRELL

1. FOUNDRY AND FORGE WORK.—Foundry instruction is given in bench and floor molding, mixing of materials, core making, operation of cupolas, etc. Forge instruction is given in drawing, upsetting, forming, welding, and tool dressing. Shop work, *six hours a week. Two credit hours.* MR. DAVEE

2. PATTERN WORK.—Bench work and wood turning to familiarize the student with the tools used in modern woodworking practice, and to give him experience in working from dimensioned drawings. Pattern work, consisting of making complete patterns and core boxes from drawings. Shop work, *six hours a week. Two credit hours.* MR. DAVEE

7; 8. MACHINE WORK.—A small piece of machinery is manufactured which involves a study of the principles and operation of the various machine tools, at the same time including an insight into that phase of manufacturing which requires one part to fit another properly and the entire machine to be readily assembled. Shop work, *six hours a week. Two credit hours.* MR. PERKINS

9; 10. MACHINE WORK.—A shorter course than 7; 8, for electrical engineers. Shop work, *four hours a week. One and one-half credit hours.* MR. PERKINS

21. ELEMENTS OF MECHANICAL ENGINEERING.—A course designed to familiarize the student with the mechanical apparatus of manufacturing and power plants, and elementary mechanical engineering calculations. Classroom, *two hours a week. Two credit hours.* MR. TYRRELL

27. KINEMATICS.—A shorter course than 55, arranged for electrical engineers. Recitation, *three hours a week. Three credit hours.* MR. TYRRELL

28. KINEMATICS.—A shorter course than 27, given to chemical engineers. Recitation, *two hours a week. Two credit hours.* MR. TYRRELL

32. MATERIALS OF ENGINEERING.—Properties of the metals; production from ores; heat treatment; methods of testing. Classroom, *two hours a week. Two credit hours.* MR. TYRRELL

38. MECHANICAL LABORATORY.—Elementary experimental work such as calibration of instruments, use of steam and gas engine indicators, mechanical efficiency tests, etc. Laboratory, *three hours a week. One and one-half credit hours.* MR. SPARROW, MR. TYRRELL

39. MECHANICAL LABORATORY.—A course arranged for seniors in Civil Engineering. Testing of strength of materials; measurement of flow of water over weirs, through orifices and nozzles; calibration of venturi meters. Prerequisite, Civil Engineering 26 or 35. Laboratory, *three hours a week. One and one-half credit hours.* MR. SPARROW

40. MECHANICAL LABORATORY.—A course arranged for seniors in Chemical Engineering. Calibration of instruments; tests of engines; measurement of flow of water; tests of lubricants. Prerequisite, Course 43. Laboratory, *three hours a week. One and one-half credit hours.* MR. SPARROW

41. MECHANICAL LABORATORY.—A course arranged for seniors in Electrical Engineering. Calibration of instruments; testing strength of materials; testing of steam engines, gas engines, hydraulic testing. Prerequisite, Course 44. Laboratory, *three hours a week. One and one-half credit hours.* MR. SPARROW

43. HEAT ENGINEERING.—A short course for senior chemical engineers covering the laws of thermodynamics and their application to heat motors, air compressors, refrigerating machinery, and power plant equipment. Recitation, *three hours a week. Three credit hours.* MR. SPARROW

44. HEAT ENGINEERING.—A course similar to Course 79, given to electrical engineers. Prerequisites, Mathematics 8 and Physics 2. Recitation, *three hours a week. Three credit hours.* MR. SPARROW

45. HEAT ENGINEERING.—Simple and compound steam engines; steam turbines; gas engines; gas producers; fuels and combustion; steam and gas power plant equipment and operation. For seniors in Electrical Engineering. Prerequisite, Course 44. Recitation, *three hours a week. Three credit hours.* MR. SPARROW

46. HEAT POWER.—Fuels and combustion, steam and gas power-plant equipment; arrangement, operation, and efficiencies of various types of apparatus. Prerequisite, Course 79. *Three hours a week. Three credit hours.* MR. WATSON, MR. SPARROW

50. THESIS.—The results of some original investigation or design presented in proper form. The subject should be selected early in the fall se-

mester of the senior year. See regulations regarding degrees. *Three credit hours.* MR. SWEETSER and STAFF

55. KINEMATICS.—A study of motion, velocity, and acceleration of machine parts, supplemented by drawings of cams, gear teeth, and graphical studies of kinematical problems. Classroom, *three hours a week;* drawing room, *three hours a week. Four credit hours.* MR. PRAGEMAN, MR. TYRELL

66. MACHINE DESIGN.—A study of the design of machines; proportioning of parts for strength, rigidity, etc. Prerequisites, Course 55 and Mechanics 51. Classroom, *two hours a week.* Drawing room, *three hours a week. Three credit hours.* MR. PRAGEMAN, MR. TYRRELL

69; 70. MECHANICAL LABORATORY.—Tests of materials, heating value of liquid and gaseous fuels, steam calorimetry, thermal efficiency, economy, and heat balance tests of steam engines, steam turbines, and gas engines. Prerequisite, Course 38. Laboratory, *three hours a week. One and one-half credit hours.* MR. WATSON, MR. SPARROW

71; 72. MECHANICAL LABORATORY.—Tests of condensers, boilers, air compressors, pumps, fans, hydraulic testing. Prerequisite, Course 70. Laboratory, *three hours a week. One and one-half credit hours.* MR. WATSON, MR. SPARROW

78. HYDRAULIC LABORATORY.—A course arranged for students taking Hydraulic option in Civil Engineering. Testing of impulse and reaction water wheels, flow measurement and friction in pipes and channels, etc. Prerequisite, Course 39. Laboratory, *three hours a week. One and one-half credit hours.* MR. SPARROW

79. HEAT ENGINEERING.—Laws of thermodynamics; laws of gases, saturated and superheated vapors; Carnot's, Rankine's, and actual steam engine cycles; use of steam tables; steam calorimetry; illustrative practical problems. Prerequisites, Mathematics 8 and Physics 1b; 2b, and 21 or 22. Recitation, *three hours a week. Three credit hours.* MR. WATSON

80. HEAT ENGINEERING.—Simple and compound steam engines, flow of steam, air compressors; flow of air; refrigeration. Prerequisite, Course 79. Recitation, *three hours a week. Three credit hours.* MR. WATSON

81. HEAT ENGINEERING.—A continuation of Courses 79 and 80, dealing with steam turbines; considerations affecting the design and efficiency of operation of the various types. Recitation, *two hours a week;* drawing room, *three hours a week. Three credit hours.* MR. SWEETSER

83. INDUSTRIAL MANAGEMENT.—Lectures and recitations on the various types of organization for industrial enterprises and systems of manage-

ment. It deals with types of ownership, control, selection of plant site, and the elements of machine production, time and motion study, wage systems, and selection of personnel. Prerequisites, Course 66 and Economics 2a and 10. Course 87 accompanying. Classroom, *four hours a week. Four credit hours.* MR TYRRELL

84a. INDUSTRIAL ENGINEERING.—A study of time keeping and cost-finding systems, methods of planning work, time and motion study, plant location and arrangement, heating, lighting and powering, safety engineering and fire protection. Prerequisite, Course 83. Classroom, *two hours a week. Two credit hours.* MR. TYRRELL

84b. INDUSTRIAL ENGINEERING PROBLEMS.—Design and layout of a plant including selection and location of machinery for the manufacture of some small machine or an assembly of part of a machine. A solution of the cost problems, planning, routing, and scheduling, and the development of organization charts. A detailed study of distribution of overhead expense, and practice in making and using time studies and rate tables. Course 84a accompanying. Drawing room, *four and one-half hours a week. One and one-half credit hours.* MR. TYRRELL

85. INDUSTRIAL RELATIONS.—A study of employer and employee relations, the effect of organized labor, employment methods, methods of wage payments, industrial education, and personnel service. Classroom, *two hours a week. Two credit hours.* MR. TYRRELL

86. POWER PLANTS.—Design, costs, operating expenses, and economics of steam and gas power plants. Prerequisite, Course 81. Classroom, *three hours a week. Three credit hours.* MR. SWEETSER

87. MACHINE DESIGN.—A continuation of Course 66, including the execution of the design of some typical machines. Prerequisites, Courses 55 and 66. Drawing room, *six hours a week. Two credit hours.*
MR. PRAGEMAN, MR. TYRRELL

88. DYNAMICS OF MACHINES.—A study of the forces due to reciprocating and rotating masses with special application to balancing high-speed machinery, designing governors and flywheels. Prerequisites, Courses 55 and 66. Recitation, *two hours a week;* drawing room, *three hours a week. Three credit hours.* MR. PRAGEMAN

90. ENGINEERING COST ACCOUNTING.—A detailed study of manufacturing cost systems, the use of standard costs in price estimating, the relation of economic considerations to pricing policies. Prerequisites, Course 83 and Economics 9 and 10. Classroom, *two hours a week;* drawing room, *three hours a week. Three credit hours.* MR. TYRRELL

91. Heating and Ventilation.—Heat resistance of building materials, calculation of heat losses through various types of walls, windows, etc., heating systems, ventilating systems, humidification. Prerequisite, Course 80. Recitation, *two hours a week. Two credit hours.* Mr. Prageman

93. Gas Engines.—Types, operation, fuels and combustion, carburetion, ignition, valves, cooling, governing, determination of cylinder sizes for given fuel and horsepower. Prerequisites, Courses 66 and 79. Classroom, *three hours a week. Three credit hours.* Mr. Sweetser, Mr. Watson

94. Hydraulic Machinery.—Hydraulic turbines; water wheels, various features of hydraulic power plant development. Prerequisites, Mechanics 52, Civil Engineering 26 or 35, and Mechanical Engineering 55. Recitation, *three hours a week. Three credit hours.* Mr. Prageman

98. Factory Organization and Management.—Lectures and assigned reading bearing upon various types of organization for industrial enterprises; planning and equipping of factory plants; systems of management; factory design and construction. Recitation, *two hours a week. Two credit hours.* Mr. Prageman, Mr. Tyrrell

101. 102. Metallography.—Polishing, etching, and a microscopic study of the crystalline structure of metals. A study of the effect of heat treatment on the crystalline structure and physical properties of steel. Classroom, *one hour a week;* laboratory, *four hours a week. Three credit hours.* Mr. Sweetser

103. 104. Advanced Fluid Flow.—A more theoretical study of flow of gases, vapors, and fluids than in undergraduate courses. Application to fans, blowers, compressors, steam turbines, refrigeration machinery, pumps, piping, and lubrication problems. Laws of similitude, effects of viscosity, applications of dimensional analysis. Classroom, *three hours a week. Three credit hours.* Mr. Sweetser, Mr. Watson

Inspection Trip.—A visiting trip of one week's duration to various manufacturing and power plants. This trip is open only to seniors who are eligible for graduation. A complete schedule of the trip is prearranged and a member of the department staff is in charge of the party.

MECHANICS

Professor Weston

51; 52. Mechanics.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; exercises in finding center of gravity and moment of inertia; the study of stresses and strains

in bodies subject to tension, compression, and shearing; the common theory of beams, including shearing force, bending moment, and elastic curves; torsional stresses and theories of stress in long columns. Recitation, *five hours a week. Five credit hours.*

53; 54. MECHANICS.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; the study of simple stresses and strains with such applications as the time permits. Recitation, *three hours a week. Three credit hours.*

101. 102. ADVANCED MECHANICS.—General principles of kinematics, statics, and kinetics; the mathematical theory of elasticity; the theory of the potential function with applications to problems in gravitation, hydro-mechanics, etc. Recitation, *two hours a week. Two credit hours.*

PULP AND PAPER TECHNOLOGY

PROFESSOR BRAY; ASSISTANT PROFESSOR CAULFIELD

49. 50. THESIS.—The thesis will embody the result of the study of a special problem in the laboratory. It will partake of the nature of original investigations. Hours arranged. *One to three credit hours.*

MR. BRAY, MR. CAULFIELD

65. PULP TECHNOLOGY.—A lecture course on the manufacture of the various kinds of wood pulps, and the chemical engineering involved in present-day pulp making. Prerequisites, Chemistry 1b; 2b, 31, and 40. Classroom, *two hours a week. Two credit hours.* MR. BRAY

66. PAPER TECHNOLOGY.—A lecture course on the processes of manufacturing paper. Prerequisite, Course 65. Classroom, *two hours a week. Two credit hours.* MR. BRAY

67. PULP MANUFACTURE.—Laboratory work. Unit-process work on semi-commercial scale production of various kinds of wood pulps, analysis of pulp-making raw materials, etc. Course 65 should be taken in conjunction. Prerequisites, Chemistry 1b; 2b, 31, and 40. Laboratory, *eight hours a week for first nine week.* One breakage card required. *Two credit hours.*

MR. BRAY, MR. CAULFIELD

68. PAPER MANUFACTURE.—A laboratory course, unit process work, in which papers of various kinds are made on semi-commercial equipment including Jordan and cylinder paper machines. Course 66 should be taken in conjunction. Laboratory, *eight hours a week for first nine weeks.* One breakage card required. *Two credit hours.* MR. BRAY, MR. CAULFIELD

82. Paper Coloring.—A laboratory course involving an examination and application of the various classes of dyestuffs. Prerequisite, Course 85. Laboratory, *eight hours a week for first nine weeks.* One breakage card required. *Two credit hours.* Mr. Bray, Mr. Caulfield

85. Cellulose.—A laboratory course dealing with the characteristics and derivatives of various kinds of pulps (cellulose). Prerequisites, Chemistry 1b; 2b, 31, 40 and Pulp and Paper 65. Laboratory, *four hours a week.* One breakage card required. *Two credit hours.* Mr. Caulfield

86. Bleaching of Pulp.—A laboratory course dealing with the methods of bleaching various kinds of pulp including use of bleaching powder, chlorine, electrolytic bleach production, and efficiency testing. Prerequisite, Course 65. Laboratory, *eight hours a week for last nine weeks.* One breakage card required. *Two credit hours.* Mr. Bray, Mr. Caulfield

87. Paper Testing and Analysis.—A laboratory course involving physical, microscopical, and chemical testing of various kinds of papers. Prerequisites, Chemistry 31 and 40 and Pulp and Paper 65 and 66. Laboratory, *four hours a week.* One breakage card required. *Two credit hours.*
Mr. Bray, Mr. Caulfield

105. 106. Investigations in Pulp and Paper Technology.
Mr. Bray, Mr. Caulfield

Equipment obtained and receipted for by a student and not returnable at the end of a course, as well as a few non-returnable supplies and a few special chemicals, will be charged to the student at cost. The supply room will be open during all laboratory periods. Breakage cards may be obtained only at the Treasurer's office and all students taking laboratory courses are required to have one. The unused balance is redeemable at the Treasurer's office, after obtaining clearance at the chemistry storeroom.

For Pulp and Paper Technology courses in the Summer Session, see the Summer Session Bulletin.

General Courses

Not sponsored by a single College or School.

TUTORIAL HONORS

The purpose of the Tutorial Honors course is to afford the superior student an opportunity to pursue, under exceptionally favorable conditions, some subject which is deemed important in the equipment of the symmetrically educated person, but for which he has not yet found a place in his course of study. It is not intended to provide instruction in a student's major subject, but to enable him to gratify his intellectual curiosity in some new field. As a rule, only juniors or seniors who have attained the standard of the Dean's List may be admitted, although inclusion in that list is not strictly prerequisite, nor will it serve automatically to admit the student to the course. The course is designed solely for the benefit of the student of ability, ideas, and self-reliance who can profit by the free manner of tutorial instruction and close contact with an adviser specially qualified to direct his study.

49. 50. TUTORIAL HONORS.—The work is conducted by personal conferences and directed reading. The tutor is selected with the approval of the Committee on Tutorial Courses. Application for admission to the course should be made to Dean Chase. *Two credit hours.*

MILITARY SCIENCE AND TACTICS

LIEUT. COLONEL ALCOTT; LIEUT. COLONEL HAW; MAJOR PHINNEY; MAJOR HUSKEA; CAPTAIN LOUPRET; SERGEANT ROY; SERGEANT RINKAUS

Military instruction is required by law. The department is in charge of an officer of the regular army, detailed by the President of the United States, as Professor of Military Science and Tactics. The course maintained is that of an infantry and of a Coast Artillery Unit of the Reserve Officers' Training Corps the purpose of which is to train officers for infantry and coast artillery. The students are organized into infantry companies and coast artillery bat-

teries, including a band. The whole is organized into a battalion officered by cadets selected for character, soldierly bearing, and military efficiency. Instruction is carried on under rules and regulations prescribed by the Secretary of War in accordance with law.

Uniforms (except shoes, white shirts, collars, and leather waist belts), arms, and equipment of the latest model of the U. S. Army are furnished by the government.

Each student is required to have a pair of regulation shoes and, to insure uniformity, as well as reduce the cost to the minimum, he is required to secure these from the University. They are issued with the uniform, become the student's property, and the cost is deducted from his military deposit. These shoes are purchased directly from the manufacturers and are charged to the student at cost.

The uniform prescribed is as follows:

For cadet commissioned officers, the olive-drab service uniform prescribed for officers of the U. S. Army, except that "R.O.T.C." insignia are used; for other than commissioned officers, the olive-drab service uniform prescribed for the R.O.T.C. Basic Course.

Cadets are required to wear the uniform when on military duty.

In the following schedule of courses, numbers 1 to 4, inclusive, are required of all physically fit male freshmen and sophomores except students in the Two-Year Course in Agriculture. Course 5, 6 is elective for juniors and Course 7, 8 is elective for seniors. The required courses cover two years' instruction as laid down in War Department regulations. The elective courses also cover two years *and once entered upon* become a prerequisite for graduation. Having completed Courses 1 to 4, inclusive, students electing to continue their military training, who comply with the requirements of law and regulations, are entitled to money commutation of subsistence at a rate fixed by the Secretary of War.

Three per cent of the total number of students who on March 1 of each year are enrolled in the second year of the Advanced Course (Mt 7, 8), may be designated by the institution as honor graduates. The term "honor graduate" is understood to apply to a graduate whose attainments in scholarship have been so marked as to receive the approbation of the head of the University, and whose proficiency in military training and intelligent attention to duty have won the commendation of the professor of military science and tactics.

The general object of the courses of instruction of the Reserve Officers' Training Corps is to qualify students for positions of leadership in time of a national emergency and to better qualify them for their duties in civil life.

Basic Course, Infantry

Freshman Year, Course 1, 2. *Three hours a week, one and one-half credit hours a semester*

First Semester—National Defense Act and mission of R.O.T.C.; obligations of citizenship; military history and policy; current international situation; military discipline, courtesy and customs of service; military sanitation and first aid; military organization with special reference to rifle, machine gun, howitzer, supply and headquarters companies; leadership, including close and extended order drills, ceremonies, practice of fundamentals of leadership.

Second Semester—Map reading; the rifle and rifle marksmanship; leadership, covering same subjects as in first semester.

Sophomore Year, Course 3, 4. *Three hours a week, two credit hours a semester*

First Semester—Automatic rifle; musketry; characteristics of infantry weapons and those of the supporting arms; leadership (review and continuation of first year's training, stressing fundamentals of leadership).

Second Semester—Scouting and patrolling, functions of platoon scouts; combat principles of squad and section in attack defense and security; military history (lecture course on selected battles); leadership (continuation of first semester's work).

Advanced Course, Infantry

Junior Year, Course 5, 6. *Five hours a week, four credit hours a semester*

First Semester—Aerial photograph reading; machine guns; howitzer company weapons; leadership (principles of and instructional methods, with a thorough theoretical and practical review of basic training on this subject with a view to qualifying advanced students as instructors of basic students in close and extended order drill and ceremonies).

Second Semester—Review of rifle marksmanship; pistol (instruction in the care, mechanism, and use of); combat training (estimate of situation and combat orders; marches, security, development for combat, offensive and defensive combat; organization of the ground; combat principles of the rifle platoon, machine gun platoon and howitzer company squad; field fortifications), leadership (continuation of first semester's work).

Senior Year, Course 7, 8. *Five hours a week, four credit hours a semester*

First Semester—Tanks and mechanization; review of offensive and defensive combat, organization of the ground, combat orders, solutions of problems; combat principles of the rifle company, machine gun company and howitzer company platoon in attack, defense, and security; defense against chemical warfare; combat intelligence; infantry signal communications; leadership (principles of and instructional methods, being a review of first year advanced training from the viewpoint of the leader and instructor).

Second Semester—Anti-aircraft defense; military history and policy (the effects of national policy, foreign and domestic, on national preparedness for war and the conditions resulting therefrom as exemplified by U. S. history); military law (theoretical and practical instruction in military law and the procedure of Courts-Martial); company administration (instruction in preparation of reports, returns, military correspondence, mess management, organization funds, supply, mobilization of small unit); regulations of officers' reserve corps; leadership (continuation of work of first semester).

Basic Course, Coast Artillery

Freshman Year, Course 1, 2. *Three hours a week, one and one-half credit hours a semester*

First Semester—Organization of the Army; organization of the Coast Artillery Corps; military discipline, courtesies and customs of the service; military sanitation and first aid; military history and policy; National Defense Act and R.O.T.C.; military obligations of citizenship; current international situation; leadership, theory of close order drill to include the platoon; the practice of close order drill to include the company and ceremonies.

Second Semester—Leadership (continuation of the theory and practice of close order drill to include the company and ceremonies); primary coast artillery instruction (rifle marksmanship; coast artillery ammunition; weapons and material).

Sophomore Year, Course 3, 4. *Three hours a week, two credit hours a semester*

First Semester—Leadership (review and continuation of first year's training, adding thereto training in the fundamentals of leadership). Coast artillery instruction (fire control and position finding for anti-aircraft artillery; identification of aircraft).

Second Semester—Leadership (review and continuation of first semester work in leadership); coast artillery instruction (fire control and position finding for seacoast artillery, characteristics of naval targets).

Advanced Course, Coast Artillery

Junior Year, Course 5, 6. *Five hours a week, four credit hours a semester*

First Semester—Leadership (theoretical and practical review of the basic training in this subject, primarily from the viewpoint of an instructor and leader). Map and aerial photograph reading; combat orders and the solution of problems.

Second Semester—Coast artillery instruction (basic gunnery, fire control, and position finding for anti-aircraft artillery; basic gunnery, fire control and position finding for seacoast artillery); leadership (continuation of work of first semester in this subject).

Senior Year, Course 7, 8. *Five hours a week, four credit hours a semester*

First Semester—Military law and administration (the law of military offenses, Courts-Martial, administration); military history and policy; leadership (review of previous drill and command course and additional practical instruction to qualify the student to perform the duties of platoon and battery commanders and instructors of basic students in close order drill and ceremonies); coast artillery instruction (materiel).

Second Semester—Leadership (continuation of work of first semester in this subject); motor transportation; artillery tactics; orientation; field engineering.

Band

Course 11, 12. *Three hours a week, one credit hour a semester.*

The band consists of two classes of students: (1) Those who register for band and receive one hour of academic credit. (2) Those who do not register but who usually play with the band on public appearances, at military ceremonies, and on trips of the band as an undergraduate organization. Students who are registered for Band are required to practice two hours per week. For the equivalent of the third hour, they are required to attend such parades, ceremonies, and functions as designated by the Military Department and as requested by the Athletic Association. PROFESSOR SPRAGUE, SERGEANT ROY

PHYSICAL EDUCATION AND ATHLETICS

Men's Division

PROFESSOR WALLACE; PROFESSOR CURTIS; PROFESSOR BRICE;
PROFESSOR JENKINS; MR. KENYON

Athletics for men are under the supervision of the Athletic Board, composed of members of the faculty, alumni, trustees, and students. The management of athletics is in the hands of a faculty manager, who carries out the policies of the Athletic Board.

The schedules of all sports are arranged with the interest of both the University and the individual members of teams in mind. Letters and numerals are awarded by the Athletic Board to those men who earn them in competition in various sports. Admission to all athletic contests is included in the blanket tax which is paid by each student at the time of registration.

Student managers are appointed in each sport and their work is carried on under the direction of the Faculty Manager. They are awarded a letter in their sport at the satisfactory completion of their duties.

Teams are maintained in varsity, junior varsity and freshman football, varsity and freshman cross country, varsity relay, varsity and freshman indoor and outdoor track, varsity and freshman baseball, varsity winter sports, varsity and freshman tennis, and varsity and freshman basketball.

The organization of the Physical Education Department has been planned to give the student such experience and instruction as will enable him to establish habits of recreation which will serve to promote healthful physical activity while in college and in his life after graduation. Especial emphasis will be placed upon out-of-door recreational exercises during the fall and spring, while the gymnasium will be used to its full extent during the winter months.

The Intramural Athletic Association is a part of the Physical Education Department, and was organized for the purpose of fostering athletics for men who are not participating in varsity sports at the time and for all others at any time.

Competition is carried on by twenty-three teams in eleven different sports and it is hoped that it will be possible to increase this number in the near future.

It is the plan of the Department to furnish opportunity for everyone to participate in his favorite physical education activity.

1, 2. PHYSICAL EDUCATION.—Required of all freshmen. Outdoor supervised mass games; competitive athletics including football, boxing, wrestling, fencing, corrective exercises, elementary apparatus work, intramural sports, and indoor games. *Two hours a week, no credit.*

3, 4. PHYSICAL EDUCATION.—Required of all sophomores. Outdoor mass games and athletics including football, tag football, tennis, volley ball, playground ball, speedball, and winter sports. Indoor games include basketball, wrestling, boxing, fencing; corrective work and apparatus work will also be taught in the gymnasium. Credit is given for participation in intramural sports. *Two hours a week, no credit.*

Teachers' Courses in Physical Education for Men

The following courses are for students who wish to teach physical education and who have completed Courses 1, 2 and 3, 4. The complete program is classed as a minor subject.

5. PHYSICAL EDUCATION.—The technique of teaching gymnastics. An outline of General Physical Education taking up specifically the meaning and results to be expected in modern physical education, first aid and massage, and the principles of training athletes and caring for athletic injuries. Practice teaching of games and mass athletics, supplemented by outside reading on physical education and hygiene. Methods of teaching football and basketball. *Five hours a week, two credit hours.*

6. PHYSICAL EDUCATION.—The study of games and play activity, covering plays and games from a physical education standpoint. Apparatus work, formal and school-room gymnastics, methods of promoting grammar and high-school programs in physical education and health. Methods of teaching track and baseball. *Five hours a week, two credit hours.*

7. PHYSICAL EDUCATION.—Health problems of school and community with emphasis on rural schools. A continuation of the technique of teaching mass games, corrective work, formal and informal gymnastics. Training and conditioning of athletes. Practice teaching. Methods of teaching football and basketball. *Five hours a week, two credit hours.*

8. PHYSICAL EDUCATION.—The administration of Physical Education programs in elementary and secondary schools. Graded apparatus work, training of leaders, corrective work individually and in classes. Practice teaching. Methods of teaching track and baseball. *Five hours a week, two credit hours.*

Women's Division

ASSOCIATE PROFESSOR LENGYEL; MISS ROGERS; MISS REYNOLDS

It is the purpose of this department to develop good physical condition among college women by providing opportunity for the formation of wholesome habits and for relaxation and recreation.

A medical examination by the University physician and a physical examination by the director of physical education are given each entering student during the first week of school, and thereafter as often as seems advisable. These are intended: to assist in the placement of the student with reference to her college program in the light of her physical ability and limitations; to inform the student as to her exact physical condition, so that she can intelligently conduct her mental and physical activity; and to discover as soon as possible any organic and physical defects in order to hasten their treatment.

Instructors in all activities are placing particular emphasis on two important aspects: the physical needs of the individual and the fun of the game. To stimulate a wholesome competitive interest on the part of the student, the Maine Athletic Association Women's Branch conducts a series of interclass activities in hockey, basketball, archery, tennis, baseball, track, and other sports.

Regulation gymnasium uniforms, described elsewhere in the catalog, are required for this work.

1, 2. ELEMENTARY PHYSICAL EDUCATION.—Required of all freshmen. Consists of postural and development gymnastics and physical efficiency tests of endurance, strength, and agility. Hockey, tennis, basketball, baseball, archery, and track may be substituted for this in season. *Two hours a week, no credit.*

1a, 2a. MODERN DANCE, ELEMENTARY.—May be substituted for Course 1, 2. Elements of the modern dance as introduced by Mary Wigman and Martha Graham. Appreciation of the dance is taught. Emphasis is placed upon mood, body control, and the development of imaginative powers. *Two hours a week, no credit.*

3, 4. ADVANCED PHYSICAL EDUCATION.—Required of all sophomores. A continuation of Course 1, 2, with advanced gymnastics and apparatus work, and more difficult physical efficiency tests. The sports listed above may be substituted for this in season, for the purpose of developing greater skill and accuracy, as well as providing recreation. *Two hours a week, no credit.*

3a, 4a. MODERN DANCE, ADVANCED.—Continuation of Course 1a, 2a with more advanced technique, dance form, and competition. May be substituted for Course 3, 4. *Two hours a week, no credit.*

5, 6. TAP DANCING.—Can be taken for Physical Education credit for one year only, either freshman or sophomore year.

INDIVIDUAL GYMNASTICS—Required of all freshmen and sophomores referred to the department by the medical examiner or by their family physician for special work. Prescribed exercises for body building, posture, foot work, etc. Students who are required to take this work substitute it for Courses 1, 2 and 3, 4. *Two hours a week, no credit.*

Teachers' Certificate Courses in Physical Education for Women

The following courses are for students who wish to minor in Physical Education and thus obtain a Secondary State Teachers' Certificate from the State Department of Education.

Prerequisites: Physical Education 1, 2, 3, 4 without credit; General Zoology, *four credit hours;* Elementary Physiology and Hygiene, *two credit hours;* Human Physiology, *four credit hours.*

7. THE PRINCIPLES OF PHYSICAL EDUCATION AND HYGIENE.—An introductory course in the interpretation and objectives of physical education. Open to juniors who are preparing to teach. *Three hours a week and field work, two credit hours.*

8. PHYSICL EXAMINATION AND MEASUREMENTS.—This course covers the purposes, management, and technique of physical examination and first aid with the exception of the determination of organic capacity for activities. Open to juniors who have fulfilled the requirements of Zoology 1, 5, 12. *Three hours a week and field work, two credit hours.*

9. METHODS FOR TEACHING PHYSICAL EDUCATION.—This course deals with the methods of teaching physical education activities through the grades and high school. It also gives opportunity for practice teaching. Open to seniors who have passed Courses 7 and 8. *Three hours a week and field work, two credit hours.*

12. FIRST AID.—Given biennially in the spring semester. This course includes the fundamentals prescribed by the American Red Cross in their First Aid Outline. Upon its completion the American Red Cross First Aid Certificate will be awarded. *Two credit hours.*

14. Girls' Basketball and High-School Athletics.—It takes up girls' athletics from the standpoint of girls' need of physical education. Specializes in athletics. Instruction in organized team games such as basketball, hockey, tennis, archery; recreational activities such as volley ball, badminton, deck tennis. Plan and diagram of plays, skeleton practice system and methods of training. *Three hours a week and field work, two credit hours.*

It is recommended that students enrolling in the above courses should have at least six hours of each of the following departments: Education, Psychology, Sociology, and Public Speaking.

Graduate Study

FACULTY OF GRADUATE STUDY

GEORGE DAVIS CHASE, Ph.D., LL.D., *Dean of Graduate Study and Professor of Classics*
†JAMES NORRIS HART, Sc.D., Ph.D., *Dean of the University and Professor of Mathematics*
EDITH MARION PATCH, Ph.D., *Entomologist, Experiment Station*
LAMERT SEYMOUR CORBETT, M.S., *Professor of Animal Industry*
WILLIAM JORDAN SWEETSER, S.B., *Professor of Mechanical Engineering*
†ROY MERLE PETERSON, Ph.D., *Secretary of the Faculty and Professor of Romance Languages*
ROBERT RUTHERFORD DRUMMOND, Ph.D., *Professor of German*
HARLEY RICHARD WILLARD, Ph.D., *Professor of Mathematics*
JOHN H ASHWORTH, Ph.D., *Professor of Economics and Sociology*
CHARLES ANDREW BRAUTLECHT, Ph.D., *Professor of Chemistry and Chemical Engineering*
MILTON ELLIS, Ph.D., *Professor of English*
EMBERT HIRAM SPRAGUE, B.S., *Professor of Sanitary Engineering*
ALBERT LEWIS FITCH, Ph.D., *Professor of Physics*
DONALD FOLSOM, Ph.D., *Plant Pathologist, Experiment Station*
CHARLES HENRY MERCHANT, Ph.D., *Professor of Agricultural Economics and Farm Management* .
JAMES HOWARD WARING, Ph.D., *Professor of Horticulture*
PAUL CLOKE, E.E., Eng.D., *Dean of the College of Technology*
OLIN SILAS LUTES, Ph.D., *Dean of the School of Education and Professor of Education*
CHARLES ALEXIUS DICKINSON, Ph.D., *Professor of Psychology*
PEARL STUART GREENE, A.M., *Professor of Home Economics*
FERDINAND HENRY STEINMETZ, Ph.D., *Professor of Botany and Entomology*
WILLIAM EDWARD BARROWS, E.E., *Professor of Electrical Engineering*
ARTHUR ST. JOHN HILL, E.E., M.S.E., *Professor of Electrical Engineering*
FRED GRIFFEE, Ph.D., *Biologist and Director of the Experiment Station*
RONALD BARTLETT LEVINSON, Ph.D., *Professor of Philosophy*
ELMER REEVE HITCHNER, Ph.D., *Professor of Bacteriology*

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†On leave of absence, 1936-37.

MARION DEYOE SWEETMAN, Ph.D., *Professor of Home Economics*
MAURICE DANIEL JONES, M.S., *Professor of Agricultural Economics and Farm Management*
PAUL DECOSTA BRAY, Ch.E., *Professor of Pulp and Paper Technology*
ARTHUR LOWELL DEERING, B.S., Sc.D., *Dean of the College of Agriculture*
WESTON SUMNER EVANS, M.S., *Professor of Civil Engineering*
JOSEPH MAGEE MURRAY, Ph.D., *Professor of Zoology*
JOHN ANTHONY CHUCKA, Ph.D., *Professor of Agronomy and Agricultural Engineering*
DWIGHT BURGESS DEMERITT, M.F., *Professor of Forestry*
LLEWELLYN MORSE DORSEY, M.S., *Professor of Dairy Husbandry*
HARRY WOODBURY SMITH, Ph.D., *Professor of Biological and Agricultural Chemistry*
AVA HARRIET CHADBOURNE, Ph.D., *Professor of Education*
*GEORGE WILLIAM SMALL, Ph.D., *Professor of English*
ALBERT MORTON TURNER, Ph.D., *Professor of English and Comparative Literature*
EDWARD JONES ALLEN, Ph.D., *Dean of the College of Arts and Sciences*
WILBER ELMORE BRADT, Ph.D., *Professor of Chemistry*
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ALFRED CARLETON ANDREWS, Ph.D., *Assistant Professor of Classics*

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*On leave of absence, spring semester, 1936-37.
†On leave of absence, 1936-37.

ADMINISTRATION

Graduate work is administered by the Faculty and Dean of Graduate Study. The details of administration are in the hands of an executive committee consisting of the Dean, one member from the Experiment Station, two from each of the three colleges—Agriculture, Arts and Sciences, and Technology,—and two from the School of Education.

ADMISSION

Students who hold a bachelor's degree from the University of Maine, or from an institution granting a fully equivalent degree, and who desire to pursue advanced studies, are admitted as graduate students and are under the direction of the faculty of graduate study, whether they are candidates for a degree or not.

REGISTRATION

At the beginning of each semester all graduate students, whether candidates for a degree or not, are required to register with the head of the department in which they propose to do their major work, obtain the approval of the Dean, and complete their registration by filing their program of study at the Registrar's office. A fee of two dollars is charged for registration after two weeks have elapsed.

TUITION AND FEES

The tuition charges for graduate students are the same as for undergraduates.

Candidates for professional degrees are required to pay a fee of $5.00 at the time of registration, and a fee of $10.00 upon the presentation of the thesis.

FELLOWSHIPS AND SCHOLARSHIPS

Applications for graduate fellowships and scholarships should be made to the Dean of Graduate Study by May 1, except that for the Trustee Scholarship in Technology they should be made not later than April 1.

TRUSTEE FELLOWSHIPS.—The Trustees of the University established in 1931 three graduate fellowships of the value of $500.00 each, to be assigned annually on a competitive basis by a committee of the Faculty of Graduate Study.

TRUSTEE GRADUATE SCHOLARSHIPS.—Eight scholarships, of the value of a year's tuition, have been established by the Board of Trustees, two each for graduates of the three colleges in the University and the School of Education. Holders of these scholarships may be called upon to render a reasonable amount of assistance in their major department.

MARITIME PROVINCES GRADUATE SCHOLARSHIPS.—By action of the Trustees of the University, a graduate scholarship is available annually in each of the four academic divisions of the University, on a competitive basis, for graduates of the colleges and universities in the Provinces of New Brunswick, Nova Scotia, and Prince Edward's Island. These scholarships have a value of $250.00, equivalent to a full year's tuition for a student residing without the State. The first award was made in 1934, to a graduate of Acadia University.

THE COE RESEARCH FUND

The Trustees of the University have set aside the sum of $100,000 to form a permanent fund, the proceeds of which are to be used for carrying on various kinds of research work within the University. Applications for grants from this fund should be addressed to Professor E. R. Hitchner, Secretary. It is hoped that this fund may later be increased by grants from other sources.

DEGREES

The degrees of Master of Arts, Master of Science, Master of Arts in Education, and Master of Science in Education are granted to candidates who hold corresponding bachelor's degrees and fulfill the requirements of residence and scholarship.

A candidate for an advanced degree must give evidence by his previous record that he is qualified to do graduate work of a satisfactory grade. If he is a graduate of another institution he is required to submit, with his plan of study, credentials covering the courses pursued and the standing attained. If he is a graduate of the University of Maine he must present his record from the Registrar's office.

REQUIREMENTS FOR THE MASTER'S DEGREE

A candidate for the master's degree is required to devote at least one year to resident graduate study and to complete work amounting to fifteen hours per week throughout the college year (thirty semester hours). In the case of summer session students, four sessions, or the equivalent, are normally accepted as equivalent to a year of residence.

At least one year must elapse between the conferring of the bachelor's and the master's degree. No work done before the recommending for the bachelor's degree shall be counted toward the master's degree. All requirements for the degree must be completed within an eight-year period.

As soon after registration as practicable, the student, in conference with his major instructor, will plan his entire course of study for the master's degree. The major instructor will present the proposed curriculum for approval to a committee, which consists of the Dean of Graduate Study and the representatives of the candidate's college on the Executive Committee of the faculty.

The curriculum shall include work in a major department or subject in which the candidate has already completed the equivalent of at least two years of undergraduate study. The work may all be done in one department, or it may include not more than two minor subjects which bear a distinct relation to the general plan or purpose of the major subject. All of the work must be of advanced character and must be tested by examinations which the candidate shall pass with distinction.

Courses of study intended primarily for graduate work are numbered above 100 in the catalog, but courses numbered 51 to 100 inclusive may be counted upon approval. Courses numbered 50 or under may not be accepted for graduate credit.

Each candidate for a degree is furnished with a registration book containing the names and numbers of the courses which have been approved for his degree, and spaces for entering the date of beginning and completing each course, to be filled in by the instructor. This book is the student's official record of his course and should be carefully preserved and presented at the time of his final examination.

The candidate shall prepare, as a part of his curriculum, a satisfactory thesis on some topic connected with his major subject. It is ordinarily expected that the thesis shall be a limited piece of original research, with the design of making a minor contribution to scholarship in the student's particular field. A student of proved maturity, intelligence, accuracy, and industry, however, whose objectives and interests are not best furthered by this type of research, may be authorized to submit a thesis of different type. This may consist of a digest and analysis of the literature on a topic or problem of major importance in the student's field; the analysis of a set of accepted statistics in that field; a comprehensive outline and critique of current practices; or a report of a project undertaken and carried on under competent direction. The subject must be submitted by the end of the first semester of study.

The thesis must be deposited in completed form with the Dean of Graduate Study before the final examination. It must have been previously approved by a committee composed of his major instructor, the head of the major department, and the members of the Executive Committee from the candidate's college.

At the end of the course of study for the master's degree, after his thesis has been approved, the candidate will be required to pass an oral examination covering his work, including the thesis. The time for such examination will be arranged by the Dean to accord, so far as possible, with the convenience of the candidate and the major instructor; they will ordinarily be held in the month of May, but, at the discretion of the Executive Committee, may be held at other times. About May 15, the Dean will notify the heads of all departments of the University of the dates set for the public oral examinations of the candidates of the year. Examinations are open to all voting members of the faculty. While, as a matter of course, the examination will be conducted chiefly by the members of the departments in which the work has been done, any member of the faculty present at the examination has the privilege of questioning the candidate.

Graduates are required to receive their degree in person at Commencement unless especially excused by the President.

Further information about the administration of graduate work and detailed requirements for the form and arrangement of theses may be found in a pamphlet entitled "Degrees and Theses."

PROFESSIONAL DEGREES

The professional degrees of Chemical Engineer (Ch.E.), Civil Engineer (C.E.), Electrical Engineer (E.E.), and Mechanical Engineer (M.E.) may be conferred upon graduates in the curricula of Chemistry, Chemical Engineering, or Pulp and Paper Technology, Civil Engineering, Electrical Engineering, and Mechanical Engineering, respectively, upon the completion of the requirements stated below. Graduates receiving the degree of Bachelor of Science in General Engineering are eligible to receive, upon the completion of the requirements listed below, the professional degree of Chemical Engineer, Civil Engineer, Electrical Engineer, or Mechanical Engineer, depending upon the field of work of the candidate and the judgment of the dean and the heads of departments in the College of Technology.

The presentation of a satisfactory thesis, which shall constitute an original contribution to the advance of engineering, is required of all candidates. The candidate must hold a position of responsibility and must have accom-

plished professional work of eminence for a period of at least five years subsequent to graduation. A full and complete statement covering the professional experience of the candidate must be presented at the time of registration. Candidates are expected to be present in person to receive their degrees.

UNIVERSITY OF MAINE STUDIES

The *University of Maine Studies,* Second Series, are issued under the direction of the Faculty of Graduate Study, for the purpose of publishing notable pieces of research work produced by graduate students and members of the faculty.

Copies of the *Studies* and lists of subjects may be obtained from the University Library.

Maine Agricultural Experiment Station

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*Also a member of the Council ex officio as Commissioner of Agriculture.

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WILLIAM FRANKLIN DOVE, Ph.D., Head of Department
JOSEPH ANTHONY CHUCKA, Ph.D., Associate, Plant Breeding and Nutrition
RUSSELL MANLEY BAILEY, B.S., Associate, Plant Breeding and Nutrition
FREDERICK BARKER CHANDLER, B.S., Assistant, Blueberry Investigations
DELMAR SIMON FINK, Ph.D., Assistant, Plant Breeding and Nutrition
IVA MERCHANT BURGESS, M.S., Assistant
MILDRED REBECCA COVELL, Assistant
ELIZABETH FLORENCE MURPHY, M.A., Assistant, Animal Breeding and Nutrition
DELMAR BOYNTON LOVEJOY, M.S., Assistant, Plant Breeding and Nutrition
ARTHUR HAWKINS, M.S., Assistant, Plant Breeding and Nutrition
FRANK CHADWICK, JR., B.S., Assistant, Animal Breeding
IRVIN CARROLL MASON, M.S., Assistant, Blueberry Investigations
EMMELINE WILSON KENNEY, Laboratory Assistant
BELLE DALL, Clerk

CHEMISTRY

ELMER ROBERT TOBEY, Ch.E., Head of Department
CHARLES HARRY WHITE, Ph.C., Associate, Inspection Analyses
BERNIE ELLIOTT PLUMMER, JR., M.S., Associate, Inspection Analyses
GEORGE PETER STEINBAUER, Ph.D., Seed Analyst
GLENN HAROLD PERKINS, M.S., Assistant, Inspection Analyses
MILLARD GEORGE MOORE, M.S., Assistant, Inspection Analyses

ENTOMOLOGY

EDITH MARION PATCH, Ph.D., Head of Department
FRANK HEIDTMAN LATHROP, Ph.D., Entomologist
JOHN HENRY HAWKINS, Ph.D., Assistant
GEDDES WILSON SIMPSON, Ph.D., Assistant
ALICE WOODS AVERILL, Laboratory Assistant

HOME ECONOMICS

PEARL STUART GREENE, M.A., Head of Department
MARION DEYOE SWEETMAN, Ph.D., Collaborator
MARY MORRIS CLAYTON, Ph.D., Nutritionist
MERNA MYRTHA MONROE, M.S., Assistant

PLANT PATHOLOGY

DONALD FOLSOM, Ph.D., Head of Department
REINER BONDE, M.S., Associate
MERLE TYSON HILBORN, M.S., Assistant
RUTH WILMA BOWERS, Assistant in Seed Analysis and Laboratory Assistant

GOVERNMENT OF THE STATION

By authority of the Trustees the affairs of the Station are considered by the Station Council, composed of the President of the University, three members of the Board of Trustees, the Director of the Station, the heads and associates of the various departments of the Station, the Dean of the College of Agriculture, the Director of the Extension Service, the Commissioner of Agriculture, and one member each from the State Pomological Society, the State Grange, the State Dairymen's Association, the Maine Livestock Breeders' Association, and the Maine Poultry Improvement Association. The recommendations of the Council are referred to the Trustees for final action. The Director is the executive officer of the Station and the other members of the staff carry out the lines of research that naturally come under their departments.

OBJECT

The purpose of the agricultural experiment stations is defined in Acts of Congress establishing them and providing further funds for their support as follows:

"It shall be the object and duty of said experiment stations to conduct original researches or verify experiments—bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States and Territories," and "including such scientific researches as have for their purpose the establishment and maintenance of a permanent and efficient agricultural industry, and such economic and sociological investigations as have for their purpose the development and improvement of the rural home and rural life."

INCOME

The income of the Station is derived from the following sources: Federal and State appropriations, payments for inspection analyses made for the Commissioner of Agriculture, and from the sale of farm produce. Through appropriations to the University the State provides for the cost of printing Station publications.

EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall, described in the section on University buildings. The station is well equipped in laboratories and apparatus, particularly in the lines of biological, chemical, entomological, horticultural, pomological, plant pathological, and poultry investigations. It has extensive collections illustrating the botany and entomology of the State. It has a library of nearly 7000 volumes comprising agricultural and biological journals and publications of the various experiment stations.

HIGHMOOR FARM

The State Legislature of 1909 purchased a farm upon which the Maine Agricultural Experiment Station "shall conduct scientific investigations in orcharding, corn, and other farm crops." The farm is situated in the counties of Kennebec and Androscoggin, largely in the town of Monmouth. It is on the Farmington branch of the Maine Central Railroad, two miles from Leeds Junction. A flag station, "Highmoor," is on the farm.

The original farm contains 225 acres, about 200 of which are in orchards, fields, and pastures. The Legislature in 1925 provided an appropriation for

the purchase of 30 acres adjoining the farm for a demonstration orchard. There are in the neighborhood of 2500 apple trees upon the place. Fields that are not in orchards are well adapted to experiments with corn, potatoes, and similar farm crops. The house is well arranged for the station offices and for the home of the farm superintendent. The barns are large, affording storage for hay and grain. A cold storage plant has been provided for apples. The capacity of this plant is about 7500 boxes.

AROOSTOOK FARM

By action of the Legislatures of 1913 and 1915 a farm was purchased in Aroostook County for scientific investigations in agriculture to be under "the general supervision, management, and control" of the Maine Agricultural Experiment Station. The farm is in the town of Presque Isle, about two miles south of the village, on one of the main roads to Houlton. The Bangor and Aroostook Railroad crosses the farm.

The farm contains about 275 acres, somewhat more than half of which is cleared. The eight-room house provides an office and a home for the farm superintendent. The large barn affords storage for hay and grain and has a potato storage house in the basement.

INVESTIGATIONS

The Station continues to restrict its work to a few important lines, believing that it is better for the agriculture of the State to study thoroughly a few problems than to spread over the whole field of agricultural science. It has continued to improve its facilities and segregate its work in such a way as to make it an effective agency for research in agriculture. Prominent among the lines of investigation are studies upon the food of man and animals, the diseases of plants and animals, breeding of plants and animals, investigations in animal husbandry, orchard and field experiments, poultry investigations, entomological, agricultural, and home economics research.

INSPECTIONS

The Commissioner of Agriculture is the executive of the laws regulating the sale of agricultural seeds, commercial feeding stuffs, commercial fertilizers, dairy products, drugs, foods, fungicides and insecticides. The law requires the commissioner to collect samples and have them analyzed at the Station. The law also requires the Station to make the analyses and publish the results.

PUBLICATIONS

The Station issues three series of publications: Bulletins, Official Inspections, and Miscellaneous Publications.

The results of the work of investigation are published in part in scientific journals at home and abroad, in U. S. Department of Agriculture publications, and in bulletins of the Station. All of the more important and immediately practical studies are published in the Station Bulletins. The Bulletins for a year together make up the Annual Report. Bulletins are sent to the press of the State, to exchanges, libraries, and scientific workers. Bulletins which contain matter of immediate value to practical agriculture are sent free to residents of Maine whose names are on the permanent mailing list.

The results of the work of inspection are printed in pamphlet form and are termed Official Inspections. Official Inspections are sent to dealers within the State; those that have to do with fertilizers, feeding stuffs, and seeds are sent to farmers; and those reporting foods and drugs are sent to a list of several thousand women within the State.

The Miscellaneous Publications consist of newspaper bulletins, circulars, and similar fleeting publications. These are sent to different addresses according to the nature of the subject matter.

On request, the name of any resident of Maine will be placed on the permanent mailing list to receive notices of the Bulletins and Official Inspections as they are published. Upon request, any of the Bulletins or Official Inspections will be mailed free of charge to residents of Maine.

Summer Session

The Summer Session begins the first week in July and continues for six weeks. The faculty is made up mainly of members of the University staff of professorial rank and visiting professors from other institutions. Over one hundred courses in nineteen departments are now offered. Instruction is given in most of the subjects taught in the College of Arts and Sciences as well as in Chemistry, Pulp and Paper Technology, Physical Education, Home Economics, and Nursing Education. A large amount of work is available in Education.

As an integral part of the University organization, the Summer Session insists upon similar standards of academic achievement. In general the same requirements for admission and the same regulations apply as during the regular academic year.

The Session is primarily for the benefit of teachers and superintendents of Maine and other states who desire to take professional courses in the field of Education or to pursue other subjects which may be helpful to them in connection with their work. Hence special attention is given to teachers' courses in the various subjects offered. The Session also affords opportunities for students in the University of Maine or other similar institutions to secure credits toward a degree and complete their work in a shorter time than would otherwise be possible. Normal-school graduates who are admitted to advanced standing as candidates for a bachelor's degree in the School of Education may do a considerable part of their work in the Summer Session.

Properly qualified graduates of colleges or universities may enroll in most departments as candidates for a master's degree and complete their work by attendance at the Summer Session. The minimum residence requirement in such cases is four sessions. An increasing number of summer students are candidates for an advanced degree.

Classes meet five times a week, Monday to Friday inclusive. Except in special cases the maximum registration is for three courses, the successful completion of which entitles the student to six semester hours of credit.

A registration fee of $5.00 is paid by all students. Tuition for a single two-credit course is $15.00; for each additional two-credit course, $10.00. In some courses involving laboratory work a special fee is charged.

The opening and closing dates for 1937 are Tuesday, July 6, and Friday, August 13. The Summer Session Bulletin, giving a list of the courses offered and detailed information, is published annually about March 1. For copies and other information address Dr. Roy M. Peterson, Director, Orono, Maine.

Alumni Associations

GENERAL ASSOCIATION

President, George S. Williams '05, 9 Green St., Augusta
Vice-President, Fred D. Knight '09, 39 Boylston St., Boston, Mass.
Clerk, Maurice D. Jones '12, Orono
Treasurer, Paul D. Bray '14, Orono
Executive Secretary, Charles E. Crossland '17, Fernald Hall, Orono
Asst. Secretary, Philip J. Brockway '31, Fernald Hall, Orono

ALUMNI COUNCIL

Members at Large

	Term expires
R. H. Fogler '15, Montgomery-Ward Co., Chicago, Ill.	1937
J. E. Totman '16, Stock Exchange Bldg., Baltimore, Md.	1937
G. T. Carlisle '09, 12 Hammond St., Bangor	1937
Mrs. Hamlyn Robbins '19, R.D. 1, Scarboro	1938
Mrs. Merrill Bowles '21, 176 Nowell Rd., Bangor	1938
R E. McKown '17, Bar Harbor	1938
Arthur L. Deering '12, Orono	1938
Harold Cooper '15, 77 Davis Ave., Auburn	1938
C. Parker Crowell '98, 6 State St., Bangor	1939
Mrs. W. F. Schoppe '08, Auburn, R.F.D. #2A	1939
Harry E. Sutton '09, 161 Devonshire St., Boston, Mass.	1939
F. Drummond Freese '15, 144 Broadway, Bangor	1939
Harold M. Pierce '19, Box 58, Bangor	1939

College of Agriculture

Frank W. Hussey '25, Presque Isle	1938

College of Arts and Sciences

Hazen H. Ayer '24, 10 Post Office Sq., Boston, Mass	1939

College of Technology

Walter H. Burke '06, 2 Rector St., New York City 1938

College of Law

Robert W. DeWolfe '07, 102 Exchange St., Portland 1937

Alumni Representative on Board of Trustees

*Hosea B. Buck '93, 1 Columbia Bldg., Bangor 1939

Ex officiis

G. S. Williams '05, President of the General Alumni Association
Fred D. Knight '09, Vice-President of the General Alumni Association

Council Executive Committee

Fred D. Knight, Chairman
G. S. Williams, *ex officio*
Mrs. Hamlyn Robbins
Harold M. Pierce
R. W. DeWolfe
A. L. Deering
Hazen H. Ayer

ALUMNI MEMBERS OF ATHLETIC BOARD

	Term expires
Clifton A. Hall '10, Box 778, Bangor	1937
J. Harvey McClure '05, 45 Sixth St., Bangor	1938
Clifford Patch '11, 83 Grove St., Bangor	1939

SPECIAL ASSOCIATIONS

PULP AND PAPER

Chairman, George D. Bearce '11, Bucksport.

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*Deceased.

Maine Teachers

President, Willis R. Rollins '26, Milo; Secretary, C. E. Crossland '17, Orono;
Treasurer, K. Jean Keirstead '31, 20 Oak Street, Old Town

LOCAL ASSOCIATION OFFICERS

Maine

Androscoggin Alumnae—President, Mrs. W. F. Schoppe '08, R. 2A, Auburn; Secretary, Miss Hazel Scully '33, 15 Laurel Ave., Auburn.

Androscoggin Alumni—President, Frank Powers '11, 138 Lisbon St., Lewiston; Secretary, Paul W. Bean '35, 145 Davis Ave., Auburn.

Central Maine—President, Leon Savage '32, 18 Pleasant St., Waterville; Secretary, John Willey '35, Coburn Classical Institute, Waterville.

Cumberland County—President, Willis L. Stiles '31, 110 Revere St., Portland; Secretary, Arthur Forrestall '33, 47 Montrose Ave., Portland.

Franklin County—President, Leon Marr '06, 15 Anson St., Farmington; Secretary, Miss Elizabeth Tryon '33, 106 Main St., Farmington.

Hancock County—President, Richard E. McKown '17, Bar Harbor; Secretary, Gardner Tibbetts '22, Ellsworth.

Knox County—President, Milford Payson '30, Camden; Secretary, Mrs. Clifton Robbins '31, Camden.

Lincoln County—President, Harold Haggett '09, No. Edgecomb; Secretary, Miss Selma Gregory '34, Boothbay Harbor.

Northern Aroostook—President, Clifford McIntire '30, Perham; Secretary, Miss Delia Houghton '28, Presque Isle.

Oxford County—President, Philip Thomas '14, Box 123, Rumford; Secretary, Mrs. Richard Gleason '30, 672 Prospect Ave., Rumford.

Penobscot County—President, George E. Lord '24, Orono; Secretary, Thomas Hersey '34, 18 Plaisted St., Bangor.

Piscataquis County—President, Stacy Lanpher '08, Clerk of Courts, Dover-Foxcroft; Secretary, Mrs. Doris Ladd '25, Milo.

Portland Alumnae—President, Mrs. John Flynn '26, 125 Ocean Ave., Portland; Secretary, Miss Grace Quarrington '33, 114 Glenwood St., Portland.

Sagadahoc County—President, L. Everett Curtis, Jr. '23, 15 Berry St., Brunswick; Secretary, Howard C. Bates '33, 691 Washington St., Bath.

Somerset County—President, Raymond S. Finley '25, Pittsfield; Secretary, Lloyd H. Stitham '27, Pittsfield.

Southern Aroostook—President, Roy F. Thomas '17, Houlton; Secretary, Miss Alice Lincoln '29, Houlton.

Southern Kennebec—President, George H. McGouldrick '23, 237 Water St., Augusta; Secretary, Ralph G. Kennison '22, 9 Pike St., Augusta.

Waldo County—President, Philip Parsons '34, Belfast; Secretary, Clara Sawyer '28, E.S.N.S., Castine.

Washington County—President, Horace Bell '28, Box 142, Machias; Secretary, Ernest Gatcomb '31, East Machias.

York County—President, Robert M. Moore '16, 209 Main St., Biddeford; Secretary, Raymond H. Lovejoy '18, Sanford.

CALIFORNIA

Southern California—President, G. E. Springer '10, 1128 West 50th St., Los Angeles; Secretary, Ezekial L. Chase '26, 957 No. Ridgewood Place, Hollywood.

CONNECTICUT

Hartford—President, Bertram E. Ames '05, 102 Walden St., West Hartford; Secretary, Charles T. Janney '34, 55 Imlay St., Hartford.

DISTRICT OF COLUMBIA

Washington—President, Joseph B. Parker '15, 2318 Monroe St., N.E.; Secretary, Miss Mildred Merrill '13, 1673 Columbia Rd.

ILLINOIS

Chicago—President, J. S. Galland '07, Northwestern University, Evanston; Secretary, R. H. Fogler '15, Montgomery Ward, Chicago.

MARYLAND

Baltimore—President, Omar F. Tarr '16, 907 Old Oak Rd., Baltimore; Secretary, Clarence B. Springer '18, 3506 Dennlyn R., Baltimore.

MASSACHUSETTS

Boston Alumnae—President, Cora Emery '26, 41 Wendell St., Cambridge; Secretary, Elizabeth Livingstone '31, 8 Sanborn St., Winchester, Mass.

Boston Alumni—President, Ernest Lamb '10, 35 Congress St., Rm. 606, Boston; Secretary, Malcolm Oak '15, 5 Lockeland Ave., Arlington.

Western Mass.—President, Royal G. Higgins, Jr. '17, 55 Harwich Rd., Longmeadow; Secretary, Edward Engel '27, 24 Abbott St., Springfield.

Worcester County—President, I. L. Newman '18, 77 Nelson Place, Worcester; Secretary, Mrs. Preston Hall '15, 21 Vincent Ave., Worcester.

MINNESOTA

Northwestern—Secretary, J. H. Davidson '21, 1100 Builders Exchange, Minneapolis.

MISSOURI

Missouri Alumni—President, V. H. Wallingford '19, 400 Royal Ave., Ferguson; Secretary, Mrs. V. H. Wallingford '19, 400 Royal Ave., Ferguson.

NEW HAMPSHIRE

Southern N. H.—President, Harold Ingham '11, 328 East Penacook St., Concord; Secretary, Everett E. Libby '18, c/o Hartford Accident and Indemnity Co., 222 Bell Bldg., Manchester.

White Mountain—President, Marborough Packard '16, c/o The Brown Co., Berlin; Secretary, C. H. Goldsmith '15, 110 Washington St., Berlin.

NEW YORK AND NEW JERSEY

Central New York—President, J. O. Whitcomb '00, 618 Ostrom Ave., Syracuse; Secretary, Mrs. Vernon Bryant '28, 274 Woodbine Ave., Syracuse.

New York Alumnae—President, Mrs. Emilie K. Josselyn '21, 272 South Broadway, Yonkers; Secretary, Miss Sarah Thompson '29, 133 Glen Ave., Mt. Vernon, N. Y.

New York Alumni—President, Lawrence W. Davee '22, 153 Westervelt Ave., Tenafly, N. J.; Secretary, Lynwood K. Betts '28, 3459 Eastchester St., New York City.

Northeastern New York—President, Stanley O. McCart '29, 70 Jackson Ave., Schenectady; Secretary, M. F. Kent '30, 147 Elmer Ave., Schenectady.

Western New York—President, Maxwell K. Murphy '30, Apt. 4, 252 Delaware Rd., Kenmore; Secretary, Carroll C. Parker '36, c/o Spencer-Kellogg & Sons, Sales Corp., 98 Delaware Ave., Buffalo.

OHIO

Northern Ohio—President, Arthur O. Willey '24, 3285 DeSota Ave., Cleveland Heights; Secretary, Mrs. Arthur O. Willey, 3285 DeSota Ave., Cleveland Heights.

PENNSYLVANIA

Lehigh Valley—President, E. P. Welch '22, 2223 Fairview St., Allentown; Secretary, C. S. Poor '27, 530 W. Union Blvd., Bethlehem.

Philadelphia Alumni—President, Carl B. Eastman '25, 1500 Walnut St., Philadelphia; Secretary, Albert D. Case '04, 105 Grayling Ave., Narberth.

Pittsburgh Alumni—President, J. Wilson Brown '99, 207 Woodside Rd., Forest Hills, Wilkinsburg; Secretary, W. C. Stickney '27, 126 Sumner Ave., Wilkinsburg.

RHODE ISLAND

Providence—President, Carl F. Brugge '18, 30 Bayley St., Pawtucket; Secretary, Earl L. Ferren '20, 707 Turks Head Bldg., Providence.

CLASS SECRETARIES

1872—
1873—F. Lamson-Scribner, 1849 California St., N.W., Washington, D. C.
1874—
1875—E. F. Hitchings, 2 Summer St., Orono
1876—E. M. Blanding, 46 Madison St., Bangor
1877—E. F. Danforth, Skowhegan
1878—C. C. Chamberlain, 113 R. R. St., Enderlin, N. D.
1879—C. A. Morse, Windermere Hotel, West, Chicago, Illinois.
1880—
1881—H. M. Plaisted, 4413 Page Blvd., St. Louis, Mo.
1882—W. R. Howard, 11 Church St., Belfast
1883—L. W. Taylor, 448 So. Ardmore Ave., Villa Park, Ill.
1884—L. W. Cutter, 65 State St., Bangor
1885—Dean J. N. Hart, 123 Main St., Orono (also secretary Senior Alumni)
1886—S. S. Twombley, R. 1, Box 40, Fullerton, California.
1887—J. S. Williams, Guilford.
1888—
1889—Dr. J. S. Ferguson, 1 Malba Drive, Malba, L. I., N. Y.
1890—E. H. Kelley, 85 Main St., Orono
1891—W. M. Bailey, 88 Broad St., Boston, Mass.
1892—W. R. Butterfield, 14 Paulina St., Somerville, Mass.
1893—Harry Smith, 51 Hammond St., Bangor
1894—
1895—Dr. H. S. Boardman, 172 Main St., Orono
1896—P. B. Palmer, 32 Myrtle St., Orono
1897—W. L. Holyoke, 1422 Watauga St., Kingsport, Tenn.
1898—C. Parker Crowell, 6 State St., Bangor
1899—A. W. Stephens, 10 E. 40th St., Room 3402, New York City
1900—H. F. Drummond, Box 4, Bangor
1901—Fred M. Davis, 7 So. Dearborn St., Chicago, Ill.
1902—A. E. Silver, Ebasco Services Inc., 2 Rector St., New York City

1903—E. G. Hartford, 11 Bothwell Rd., Brighton, Mass.
1904—Leslie E. Little, 73 Court St., Augusta
1905—J. Harvey McClure, 49 Hammond St., Bangor
1906—Ralph Lord, 70 Exchange St., Bangor
1907—C. H. Lekberg, 492 Main St., Worcester, Mass.
1908—J. A. Gannett, 166 Main St., Orono
1909—Harold A. Rich, 78 Adella Ave., West Newton, Mass.
1910—Grover T. Corning, 30 Federal St., Boston, Mass.
1911—Avery C. Hammond, 61 Main St., Bangor
1912—A. L. Deering, College Rd., Orono
1913—James E. Church, 192 Northern Ave., Gardiner
1914—F. S. Youngs, 225 Center St., Bangor
1915—Robert Thurrell, East Wolfboro, N. H.
1916—W. W. Webber, Bucksport
1917—Frank O. Stephens, 21 Academy St., Auburn
1918—Thelma Kellogg, 323 W. Walnut St., Carbondale, Illinois
1919—Oscar L. Whalen, 105 Water St., Eastport
1920—W. W. Chadbourne, 59 College Ave., Orono
1921—H. C. Crandall, 48 Garfield Rd., Melrose, Mass.
1922—Ulmer Davis, 61 Main St., Bangor
1923—Elizabeth Ring, U. of M., Orono
1924—J. Wesley Ames, Slatersville Inn, Slatersville, R. I.
1925—Mrs. Hope N. Bannister, 85 Capitolian Blvd., Rockville Center, N. Y.
1926—Cora E. Emery, 41 Wendell St., Cambridge, Mass.
1927—Mrs. Crystal H. Dostie, 42 Mt. Pleasant Ave., Skowhegan
1928—Mrs. Barbara Pierce Skofield, 52 Harlow St., Brewer
1929—Mary E. Robinson, 152 West Broadway, Bangor
1930—Pauline Hall, 59 Fletcher St., Kennebunk
1931—Mrs. Mary C. Stiles, 110 Revere St., Portland
1932—Mrs. Helen S. Hincks, 349B Pleasant St., Section #1 Apt. 25, Malden, Mass.
1933—Mrs. Martha S. Baldwin, 275 Broadway, Norwich, Conn.
1934—Madelene Bunker, N. E. Baptist Hospital, Boston
1935—Agnes Crowley, 59 Western Ave., Biddeford
1936—Phyllis Hamilton, Box 215, Northeast Harbor

Honors and Prizes Awarded

Members of Phi Beta Kappa

1936

Junius Wilson Birchard, Warren, Pa.; Merle Henry Bragdon, Westfield; Alice Wood Campbell, Machias; Donald Max Fitch, Orono; Susan Belle Frost, Kingman; George Jewett Harrison, Houlton; Thomas Mason Hill, Bucksport; Faith Whittier Holden, Millinocket; Arlene Merrill, Bangor; Virginia Cobb Nelson, Guilford; Charles Eugene O'Connor, Millinocket; Mildred Lucile Sawyer, Bangor.

1937

Alice Rose Stewart, Brunswick.

Members of Tau Beta Pi

1936

Actor Thompson Abbott, Jr., Trevett; William Francis Barker, Stamford, Conn.; Frederick Martin Beal, Darien, Conn.; Gerald Gibson Beverage, North Haven; James Alden Boardman, Orono; John Matthews Coombs, Boothbay Harbor; John Marshall Etter, Bar Harbor; Richard Oliver Gordon, Portland; Ralph Franklin Hayes, Portland; John Porter Hennings, Portland; Kenneth Lawrence Ireland, Biddeford; Lyndon Maynard Keller, Pripet; William Wyman Lewis, Oakland; Richard Royal Lunt, Portland; Harland Franklin McPherson, Gray; Royal Orman Mehann, Old Town; Thomas Frank Reed, Bangor; Leonard Alton Thomsen, Portland; James Adelbert Wakefield, Jr., Cumberland Center.

1937

Wendell Merton Bagley, Troy; Richard Nathaniel Berry, Malden, Mass.; Philip Nichols Bower, Auburn; Everett Leighton Brewer, Portland; Woodford Bradbury Brown, Bangor; Robert Anderson Cabeen, Provincetown, Mass.; William Eleazor Crowell, South Portland; Alan Dallas Duff, Jr., Augusta; Cranston Wesley Folley, South Portland; Paul Winthrop Mor-

gan, Thomaston; Russell Lermond Morgan, Thomaston; Shirley Robinson Parsons, South Paris; Richard Alonzo Pfuntner, Guilford; Richard Marcus Spear, Thomaston; Gerald Earle Stoughton, Orono; George Seth Williams, Jr., Gardiner.

1938

Nelson Bradford Carter, Brewer; Howard Mayo Goodwin, Brewer; Sherman Vannah, Waldoboro.

Members of Alpha Zeta

1936

Chester Daniel Bacheller, Oakland; Alan Campbell Corbett, Orono; John Reynolds Dean, Waterville; Paul Lester Garvin, Alfred; Clyde Elwyn Higgins, Lewiston; Norton Preston Keene, Buckfield; Chester Williams Smith, Fairfield; Malcolm Louville Tilton, Burnham; Glen Willard Torrey, Auburn; Carl Allen Worthley, Strong.

1937

Richard Wilbur Briggs, Canton; Eugene Coffin, Harrington; Gayland Earl Folley, South Portland; Leslie Morton Hutchings, Portland; Robert Carroll Jones, Wales; Robert Elwin McKusick, Guilford; Gustavus Abbott McLaughlin, Dyer Brook; Avery Edmund Rich, Charleston; Sargent Russell, North Leeds; Lester Hurlin Smith, Buxton.

1938

Arthur Leroy Crouse, Crouseville; Earle Edwin Gray, Anson; Francis Clough Jones, Orono; Thomas William Owens, Jr., Portland.

Members of Phi Kappa Phi

1936

Actor Thompson Abbott, Jr., Trevett; Marcia Allen, Bangor; Frederick Martin Beal, Darien, Conn.; Gerald Gibson Beverage, North Haven; Junius Wilson Birchard, Warren, Pa.; Merle Henry Bragdon, Westfield; Alice Wood Campbell, Machias; John Matthews Coombs, Boothbay Harbor; Alan

Campbell Corbett, Orono; Anna Elizabeth Eliasson, Ellsworth; John Marshall Etter, Bar Harbor; Donald Max Fitch, Orono; Rachel Ann Fowles, Belfast; Susan Belle Frost, Kingman; Elizabeth Annette Gifford, Dorchester, Mass.; Richard Oliver Gordon, Portland; George Jewett Harrison, Houlton; Edith Bradley Hill, Orono; Faith Whittier Holden, Millinocket; Donald Goodwin Johnson, Bar Harbor; Lyndon Maynard Keller, Pripet; Arlene Merrill, Bangor; George Ira Morrison, Perry; Virginia Cobb Nelson, Guilford; Charles Eugene O'Connor, Millinocket; Thomas Frank Reed, Bangor; Mildred Lucile Sawyer, Bangor; Chester Williams Smith, Fairfield; Leonard Alton Thomsen, Portland; James Adelbert Wakefield, Jr., Cumberland Center.

1937

Everett Leighton Brewer, Portland; Leslie Morton Hutchings, Portland; Alice Rose Stewart, Brunswick.

Members of Kappa Delta Pi

1936

Cathryn Rita Hoctor, Old Orchard Beach; Raymond Ellsworth Morton, Gorham; Sarah Comfort Pike, East Woodstock, Conn.

1937

Barbara Colby, South Paris; Martha Simmons, Sargentville.

Members of Omicron Nu

1936

Rosemary Boardman, Orono; Anna Elizabeth Eliasson, Ellsworth; Rachel Ann Fowles, Belfast; Edith Bradley Hill, Orono.

1937

Lucinda Ewer Rich, Charleston.

Members of Xi Sigma Pi

1936

Harold Thomas Boardman, Skowhegan; Gordon Richardson Heath, Worcester, Mass.; George Henry Northup, Morristown, N. J.; Alton Ernest Prince, Brewer; Charles Clarence Tropp, Orono; Fred Everett Winch, Jr., Framingham, Mass.; Charles Woelfel, Peabody, Mass.

1937

Ralph Anthony Beisel, Lehighton, Pa.; William Robert Dinneen, Willimantic, Conn.; Raymond Knowles Dunlevy, Danforth; Thomas Bramlett Evans, Orono; Robert Loring Ohler, Newton Centre, Mass.; Andrew Waldemar Poulsen, Hudson Heights, N. J.; Willett Rowlands, Needham, Mass.; Edward Stuart, Jr., Rockport, Mass.; George Richardson Trimble, Jr., Stow; Harold Edle Young, Miami, Florida.

Scholarships and Prizes

The Merritt Caldwell Fernald Scholarship, Alice Rose Stewart, Brunswick.

The James Stacy Stevens Scholarship, Edwin Holmes Rand, Unity (fall semester); George Philip Hitchings, Orono (spring semester).

The Harold Sherburne Boardman Scholarship, Everett Leighton Brewer, Portland.

The Leon Stephen Merrill Scholarship, Leslie Morton Hutchings, Portland.

The Charles Davidson Scholarship, Martha Simmons, Sargentville.

The University Scholarships, Wendell Morton Bagley, Troy; Francis Wilson Bradbury, Brewer; Louis Charles Costrell, Bangor; Mildred Mae Dixon, South Eliot; Walton Earle Grundy, Portland; Barbara Harlow, Turner's Falls, Mass.; Ida Mae Hart, Milbridge; John Emerson Hart, Orono; Miriam Ada Hilton, Mercer; George Philip Hitchings, Orono (fall semester); Bernard Gordon Perkins, Orono (spring semester); Althea Hope Millett, Norway (fall semester); Walter Sylvester Staples, Kittery (spring semester); Robert Loring Ohler, Newton Centre, Mass.; Robert George Parker, Sherman Mills; Marjorie Taylor, Bangor; Sherman Vannah, Waldoboro.

Trustee Graduate Scholarships—Agriculture, Alan Campbell Corbett, Orono; Arts and Sciences, Merle Henry Bragdon, Westfield; Margaret Augusta Haskell, Stonington; Technology, Wendell Eugene Matchett, Bangor; Education, Carolyn Elizabeth McIntosh (fall semester), Bangor.

Trustee Graduate Fellowships—John Matthews Coombs, Boothbay Harbor; Richard Oliver Gordon, Portland; Clara Virginia Tewksbury, North Brooksville.

Maritime Provinces Graduate Scholarships—Agriculture, Jennie Amabel McIntosh, University of New Brunswick, Bath, N. B.; Arts and Sciences, Albert Edward Edwards, University of New Brunswick, Hartland, N. B.; Technology, Hugh Temple Hatch, University of New Brunswick, Quebec, P. Q.

Secondary School Contest Scholarships, Awarded June, 1936:

Members of Class of 1940

Four-Year Scholarship

Virginia Margaret Tuttle, East Corinth Academy, East Corinth.

Two-Year Scholarship

Wiljo Maurice Lindell, Thomaston High School, Warren.

One-Year Scholarship

Helma Katrina Ebbeson, Bangor High School, Bangor; Ruth Blackwell Fletcher, Madison High School, Anson; Josephine Anne Freeman, Portland High School, Portland; Eugene Osborne Russell, North Yarmouth Academy, Yarmouth; Arthur Earl Stearns, Jr., Cony High School, Augusta.

The Hovey Memorial Scholarships—Frederick Martin Beal, Darien, Conn.; John Matthews Coombs, Boothbay Harbor; Alan Dallas Duff, Jr., Augusta; Ralph Franklin Hayes, Portland; Paul Winthrop Morgan, Thomaston; Shirley Robinson Parsons, South Paris.

The Charles H. Hood Fund Scholarships—Thomas Levi Barker, Vassalboro; Earle Edwin Gray, Anson; Leslie Morton Hutchings, Portland; Herbert Arthur Leonard, Thorndike; Robert Edwin McKusick, Guilford; Gustavus Abbott McLaughlin, Dyer Brook; Arland Ritchie Meade, Auburn.

The W. H. Bowker Scholarships—William Dwight Barrell, Turner; Albert James Bouchard, Caribou.

The Normal School Scholarships—(Castine), Helen Gertrude Harding, Stockton Springs; Natalie Eva Nason, Hermon; (Gorham), Helen Derry Abbott, Portland.

The General Alumni Association Scholarship, Nancy Cushing Woods, Ellsworth.

The William Emery Parker Scholarship, Alan Dallas Duff, Jr., Augusta.

The Charles H. Payson Scholarships—Richard Warren Akeley, Presque Isle; Elaine Anne Blair, Island Falls; Leon Joseph Breton, Rumford; George William McLellan, Old Town; Helen Louisa Maling, Kennebunkport; Russell Lermond Morgan, Thomaston; Anna Margaretha Simpson, South Gray.

The Bertha Joy Thompson Scholarship Fund—Nelson Bradford Carter, Brewer; Elizabeth Martha Gruginskis, Rumford; Charles Forrest Treat, Orono.

The Women's Student Government Association Scholarships—Celia Cohen, Portland; Frances Sargent Smith, South Portland.

New York Alumni Association Scholarship No. 1, to be divided between Sargent Russell, North Leeds, and Chester Williams Smith, Fairfield.

New York Alumni Association Scholarship No. 2, Edward Burnham Cotton, Bangor.

The Kidder Scholarship, Leslie Morton Hutchings, Portland.

The Chicago Alumni Association Scholarship, Priscilla Day Haskell, Wiscasset.

The Pittsburgh Alumni Association Scholarship, Philip Nichols Bower, Auburn.

The Joseph Rider Farrington Scholarship, Sargent Russell, North Leeds.

The Stanley Plummer Scholarship, Ralph Edward Clifford, Dexter.

The Elizabeth Abbott Balentine Scholarship, Jeannette Frances MacKenzie, New Haven, Conn.

The Class of 1905 Scholarship, Walton Earle Grundy, Portland.

The Ohio Alumni Association Scholarship, Sargent Russell, North Leeds.

The Boston Alumni Association Scholarships, Clark Glamis Kuney, Boston, Mass.; Malbon Hollis Jennings, Haverhill, Mass.

The Lincoln County Alumni Association Scholarship, Priscilla Day Haskell, Wiscasset.

The Northern Aroostook Alumni Association Scholarship, John Franklin Whitney, Presque Isle.

The Penobscot County Alumni Association Scholarships, Edward Homer Redman, Bangor; Avery Edmund Rich, Charleston.

The Philadelphia Alumni Association Scholarship, Ralph Anthony Beisel, Lehighton, Pa.

The Southern California Alumni Association Scholarship, Marion Frieda Larsen, Cumberland Center.

The Southern New Hampshire Alumni Association Scholarship, Cranston Wesley Folley, South Portland.

The Waldo County Alumni Association Scholarship, Herbert Arthur Leonard, Thorndike.

The Worcester County Alumni Association Scholarship, Alice Pierce, Lunenburg, Mass.
The York County Alumni Association Scholarship, Lester Hurlin Smith, Buxton.
John M. Oak Scholarship Awards, 1st—Artemus Edwin Weatherbee, Bangor; 2nd—Sargent Russell, North Leeds; 3rd—Oliver Fuller Eldridge, North Adams, Mass.
Western Massachusetts Alumni Association Scholarship, Carleton Hermon Clark, Springfield, Mass.
Connecticut Alumni Association Scholarship, John Cornell Greene, Orono.
Knox County Alumni Scholarship, Dwight Elmer Lord, Camden.
The Somerset County Alumni Association Scholarship, Edith Louise Thomas, Skowhegan.
The Chi Omega Sociology Prize, Rose Lilian Costrell, Bangor.
The Prize of the Class of 1873, Raymond Powell McGinley, Danvers, Mass.
The Alpha Omicron Pi Alumnae Prize, Stacia Victoria Kufel, Shirley, Mass.
Sigma Mu Sigma Award, Azalea Ladner Boyer, Kittery Point.
The Pale Blue Key Award, Melvin Almon McKenzie, Lewiston.
The Henry L. Griffin Prize in English Composition, Alice Pierce, Lunenburg, Mass.
Franklin Danforth Prize, Anna Elizabeth Eliasson, Ellsworth.
The Spanish Club Prize, to be divided between Lucille Carroll Fogg, Bangor, and Leonard Hayden Emery, Cumberland Mills.
The Robert C. Hamlet Prize, Clark Glamis Kuney, Boston, Mass.
Omicron Nu Scholarship, Virginia Lucille Barstow, South Brewer.
Agricultural Club Scholarship, Floyd Manard Elwell, East Wilton.
Farm Bureau Federation Scholarship, Lucinda Ewer Rich, Charleston.
Mary Ellen Chase Prize, Walter Sylvester Staples, Kittery.
Alpha Zeta Senior Award, Malcolm Louville Tilton, Burnham.
German Literature Award, Arlene Merrill, Bangor.
The Class of 1908 Commencement Cup, Tie between Class of 1873 and Class of 1884.
Twentieth Century Commencement Cup, Class of 1911.
The Fraternity Scholarship Cup, Phi Mu Delta.
The Freshman Scholarship Cup, Brewer High School.
The Washington Alumni Association Watch, John Clifford Sealey, Jr., Orono.
Portland Alumnae Association Watch, Virginia Cobb Nelson, Guilford.
The Charles Rice Cup, Phi Kappa Sigma.

Commencement 1936

Thursday, June 4

5:45 P.M. Phi Kappa Phi Initiation
6:30 Phi Kappa Phi Banquet

Friday, June 5

1:30 P.M. Alumni Council Annual Meeting—M.C.A. Building
1:45 Class Day Exercises—The Oval
3:15 Pageant—given by All Maine Women—Coburn Green
4:30-6:00 President and Mrs. Hauck—"At Home"

Saturday, June 6

8:45 A.M. Reunion Class Meetings in headquarters rooms
10:00 General Alumni Association Annual Meeting—Alumni Hall
12:30 P.M. Alumni Luncheon—Alumni Memorial
1:30 University of Maine Foundation—Annual Meeting
1:45-2:15 Band Concert—The Oval
2:15-3:15 Frolics—The Oval
3:15-3:45 Presentation—Portrait of Dr. Robert Judson Aley—Alumni Hall
3:45 Baseball Game—Alumni vs. Seniors—Baseball Field
6:00 Alumni Banquet—Alumni Memorial
9:00 Alumni Hop—Alumni Memorial

Sunday, June 7

10:30 A.M. Baccalaureate Service—Alumni Memorial

Monday, June 8

9:30 A.M. Commencement Exercises—Alumni Memorial
8:00 P.M. Commencement Ball—Alumni Memorial

Degrees Conferred, 1936

College of Agriculture

Bachelor of Science

IN AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

Franklin Sproat Chapman ..... Bethel
Robert Harris Chittick ..... Portland
Gustavus Noel Currie ..... Presque Isle
Edward Littlefield ..... Springvale
John Clifford Sealey, Jr. ..... Orono
Chester Williams Smith, *With High Distinction* ..... Fairfield
Malcolm Louville Tilton ..... Burnham
Carl Allen Worthley ..... Strong

IN AGRONOMY

John Raymond Arno ..... Dexter

IN ANIMAL HUSBANDRY

John Reynolds Dean, *With Distinction* ..... Waterville

IN BOTANY

Dean Manter Bailey ..... Waterville

IN DAIRY HUSBANDRY

Frank Newton Chadwick, Jr. ..... Bradford, Mass.
Harland Bailey Clark ..... Brooks
Alan Campbell Corbett, *With Distinction* ..... Orono
Norton Preston Keene ..... Buckfield

IN DAIRY TECHNOLOGY

Clyde Elwyn Higgins ..... Lewiston
Raymond Appleton Powell ..... Carmel
David Alexander Russell ..... North Jay
Glen Willard Torrey ..... Auburn

IN ENTOMOLOGY

KENNETH BONNEY NASH ..... Augusta

IN FORESTRY

WILLIAM DOUGLASS BLAKE ..... Greenfield, Mass.
HAROLD THOMAS BOARDMAN ..... Skowhegan
ALMON BIRD COOPER, JR. ..... Rockland
RUEL MARSHALL FOSTER ..... Milford
RICHARD VAUGHAN GAFFNEY ..... Portland
GORDON RICHARDSON HEATH ..... Worcester, Mass.
GEORGE HENRY NORTHUP ..... Morristown, N. J.
ALTON ERNEST PRINCE ..... Brewer
CHARLES CLARENCE TROPP ..... Orono
FRED EVERETT WINCH, JR. ..... Framingham, Mass.
CHARLES WOELFEL, *With Distinction* ..... Peabody, Mass.

IN HOME ECONOMICS

RENA MARIA ALLEN ..... Bangor
ESTELLE SHELDON BLANCHARD ..... Cumberland Center
ROSEMARY BOARDMAN ..... Orono
FRANCES CATHERINE CALLAGHAN ..... South Brewer
DOROTHY VIRGINIA CANN ..... Higganum, Conn.
WINIFRED LOUISA COBURN ..... Greene
LEONORE EVELYN DORR ..... Brewer
ANNA ELIZABETH ELIASSON, *With Highest Distinction* ..... Ellsworth
CHARLOTTE OSGOOD FIFIELD ..... Orono
RACHEL ANN FOWLES, *With Distinction* ..... Belfast
EDITH OAK GARDNER ..... Orono
PHYLIS BRANDER HAMILTON ..... South Portland
EDITH BRADLEY HILL, *With Distinction* ..... Orono
ELINOR MARGUERITTA HILL ..... Orono
MARION AGNES HILTON ..... Anson
MARGARET SIBYL HOMER ..... Franklin
FRANCES SILSBY KNIGHT ..... Derby
MARGARET JANE LITZ ..... Limestone
SARA MELTZER ..... Auburn
MARTHA VIRGINIA PALMER ..... Orono
ANORA HOWARD PEAVEY ..... Bangor
PHYLLIS CATHRINE PEAVEY ..... Bangor

RUTH ELIZABETH PERRY.....Orono
MARY REEDY TREINOR.....Bangor
DOROTHY LOIS WOODCOCK.....Ripley

IN HORTICULTURE

PAUL LESTER GARVIN, *With Distinction*.....Alfred
MARGARETTA WARREN.....Lincolnville

IN POULTRY HUSBANDRY

CHESTER DANIEL BACHELLER.....Oakland

College of Arts and Sciences

BACHELOR OF ARTS

IN CHEMISTRY

GEORGE AHRENS CLARKE.....South Portland
WILLIAM DAVID MONGOVAN.....Bangor

IN CLASSICS

CLARICE JEANETTE GRANT.....Sandy Point
FAITH WHITTIER HOLDEN, *With High Distinction*.....Millinocket
GERTRUDE LOUISE MURRY.....Bangor
VIRGINIA COBB NELSON, *With High Distinction*.....Guilford
DAVID PURINGTON PIERCE.....Guilford

IN DRAMA

ATWOOD LEVENSALER.....Rockland
BETTINA FRANCES SULLIVAN.....Orono

IN ECONOMICS AND SOCIOLOGY

MARCIA ALLEN.....Bangor
ROSWELL PIERCE AVERILL.....Old Town
DONALD WARREN BROWN.....South Portland
ROGER WALLACE BURKE.....Portland
RICHARD GETCHELL CHASE.....Orono
RALPH JEROME CORRIGAN.....Millinocket

Charles Crockett	Stonington
Albert Philip Crowder	Bangor
Alice Gammon Crowell	Bangor
Albert Vincent Doherty	Bangor
Maxim James Dowd	Portland
George Marshall Frame	Searsport
Frederick Henry Hickey	Old Town
Thomas Mason Hill, *With Distinction*	Bucksport
Charles Wesley Jacques, Jr.	Bangor
Robert Lowe Littlehale, Jr.	Belmont, Mass.
Harold Nathan Lord, Jr.	Westbrook
Lester Jacob Meyer	Brookline, Mass.
Frederick Otis Mills	Wellesley Hills, Mass.
Arthur Grover Mintz	Dorchester, Mass.
William Henry Moran, Jr.	Brewer
Herschel Eugene O'Connell	Millinocket
Frank Danforth Peaslee	Portland
Elizabeth Philbrook	Brookline, Mass.
John Langley Porter	Randolph, Mass.
Donald Louis Rollins	Bangor
Albert Verrill, Jr.	Cumberland Mills
Lowell Nathan Weston	Augusta
David Fletcher White	Augusta
Frank Theodore Wood	Shelburne Falls, Mass.

IN ENGLISH

Wesley Sayles Bearce	Foxboro, Mass.
Helen Louise Buker	Auburn
Catharene Anne Bussell	Old Town
Rachel Carroll	Southwest Harbor
James Otto Day	Beverly Farms, Mass.
Phyllis Delaney DeCormier	Westbrook
Donald Max Fitch, *With High Distinction*	Orono
Georgia Isabel Fuller	Togus
Elizabeth Annette Gifford	Dorchester, Mass.
Bruno Golobski	Lawrence, Mass.
Ruth Emma Goodwin	Alfred
Margaret Elizabeth Hall	Castine
Leonel Paul Hallé	Skowhegan
Ralph Percy Higgins	Old Town
Ruth Constance Hinkley	Brewer

CAROLYN FRANCES LOTHROP ..... Auburn, R. I.
JAMES CLIFFORD LYNCH ..... Bangor
ELEANOR MERRIMAN ..... Topsham
CLAIRE CURTIS SAUNDERS ..... Bluehill
ERNEST SAUNDERS, JR. ..... Lewiston
MARGARET GRAZEBROOK SEWALL ..... Old Town
MARION IRMA STEWART ..... Augusta
ALFREDA MAE TANNER ..... South Portland
BERNICE ISABELLE YEOMANS ..... Danforth

IN GERMAN

GENEVA RHETA EPSTEIN ..... Bangor
JOSEPH MATTHEW HOTZ ..... Orono
ARLENE MERRILL, *With Highest Distinction* ..... Bangor
MILDRED LUCILE SAWYER, *With High Distinction* ..... Bangor

IN GOVERNMENT

DAVID SPRINGER BROWN ..... Ellsworth
ROBERT ALOYSIUS BURNS ..... Bangor
GRANVILLE HERBERT WILCOX ..... Mapleton

IN HISTORY

JUNIUS WILSON BIRCHARD ..... Warren, Pa.
DARREL BISHOP CURRIE ..... Hartland
SUSAN BELLE FROST ..... Kingman
DONALD ALBERT HUFF ..... Lynnfield Center, Mass.

IN HISTORY AND GOVERNMENT

WENDELL STANWOOD HADLOCK ..... Islesford

IN MATHEMATICS

ALICE WOOD CAMPBELL ..... Machias
TRUMAN FREDERICK CAMPBELL ..... Boothbay Harbor
HAROLD KEENE CROCKER ..... Vanceboro
CAROLYN EMILY CURRIER ..... Bangor
JOHN JOSEPH FOGARTY ..... West Haven, Conn.
MARGARET AGNES HARRIMAN ..... Ellsworth
KENNETH HORACE JOHNSTONE ..... Portland
MARY KATHERINE PERRY ..... Orono

REBECCA JEAN STANLEY ..... Cranberry Isles
LILLIAN ETHNE WOOSTER ..... Belfast

IN PHYSICS

MERLE HENRY BRAGDON, *With High Distinction* ..... Westfield
MYRON GILBERT COLLETTE ..... Spencer, Mass.

IN PSYCHOLOGY

MAE ELOUISE COHEN ..... Bangor
LOUISE JACKSON HINMAN ..... Skowhegan
ELIZABETH PENNELL JORDAN ..... Portland
JOHN DAVENPORT LEDDY ..... South Portland
DOROTHY PARKER NUTT ..... West Rockport

IN PUBLIC SPEAKING

CHARLES EUGENE O'CONNOR ..... Millinocket

IN ROMANCE LANGUAGES

PEARL PARSHLEY BUCK ..... Bangor
VIVIAN JENNIE DOW ..... Stillwater
CHARLOTTE ANN FULLER ..... Hallowell
HELEN ELIZABETH GONYA ..... Millinocket
JOSEPH THOMAS MULLEN ..... Bangor
ERMA MAE STAIRS ..... Winterport

IN ZOOLOGY

FRED ANDREW ANDERSON ..... Milo
MARIE CLOVER ARCHER ..... Milbridge
GLADYS MAE COLWELL ..... Hancock
ADRIAN KENNETH DOWNEY ..... Arlington, Mass.
JOHN SIMMONS GETCHELL ..... Oakland
ELIZABETH HELEN GIDDINGS ..... Saco
GEORGE JEWETT HARRISON ..... Houlton
SELVIN HIRSHON ..... Portland
DONALD GOODWIN JOHNSON ..... Bar Harbor
KARL VINCENT LARSEN ..... Machias
LOUIS CHARLES LESIEUR ..... Biddeford
RICHARD NEWELL LORD ..... Brewer

Donald Francis MacDonald	Bangor
Xavier Hall Ramirez	Bangor
Elizabeth Madeline Schiro	Bangor
Samuel Herman Shiro	Old Town
Paul Edward Taylor	Kittery

School of Education

Bachelor of Arts in Education

Eileen Elizabeth Brown	Brewer
Janet Campbell	Brewer
John Charles Greaney	Houlton
Louise Elizabeth Steeves	Lincoln

Bachelor of Science in Education

Beulah Beal	Jacksonville, Fla.
Ralph Lawrence Brown	Jonesport
Clayton Russell Cronkite	Skowhegan
Catherine Eleanor Delaney	Dorchester, Mass.
Cathryn Rita Hoctor	Old Orchard Beach
George Ira Morrison	Perry
Raymond Everett Perkins	North Castine
Sarah Comfort Pike	East Woodstock, Conn.
Victor Laffin Walker	Woodfords
Almira Powell Wright	Gardiner, N. Y.

College of Technology

Bachelor of Science

in chemistry

Richard Oliver Gordon, *With Distinction*	Portland
David Thomas Lull	Augusta
Royal Orman Mehann, *With Distinction*	Old Town
Gerald Arther Slosberg	Portland

IN CHEMICAL ENGINEERING

RALPH FRANKLIN HAYES, *With Distinction* ..... Portland
JOHN CHARLES KENNY ..... Palmer, Mass.
RICHARD ROYAL LUNT ..... Portland
WILLIAM PROCTOR NEWMAN, JR. ..... Bangor
CARROLL CURATIA PARKER ..... North Livermore
THOMAS FRANK REED, *With Highest Distinction* ..... Bangor
ROBERT WALDO SIMPSON ..... Corinna
FREDERICK NELSON SPRAGUE ..... Bangor
CARLETON LEWIS TAYLOR, JR. ..... Litchfield
LEONARD ALTON THOMSEN ..... Portland

IN CIVIL ENGINEERING

ACTOR THOMPSON ABBOTT, JR., *With Highest Distinction* ..... Trevett
FREDERICK MARTIN BEAL, *With Distinction* ..... Darien, Conn.
FRANK RODWELL BLAISDELL ..... Bangor
WILLARD NASH BROOKS ..... Addison
DONALD MARSHALL BROWN ..... Marion, Conn.
KENNETH MERTON CHUTE ..... Harrison
LAWRENCE FREDERICK CÔTÉ ..... Caribou
IRA FREDERIC DOLE ..... Bangor
LAWRENCE ARNOLD FARRER ..... Easton
ALVIN LYMAN HEALD ..... Union
JOHN PORTER HENNINGS ..... Portland
LYNDON MAYNARD KELLER, *With Distinction* ..... Pripet
FRANCIS JAMES MCALARY ..... Rockland
JOSEPH EARL MCEACHERN ..... Greenville Junction
CHARLES BUCK MACLEAN ..... Hartford, Conn.
ROBLEY HOWE MORRISON ..... Norway Lake
REGINALD WHITFIELD NAUGLER ..... Topsham
WILLIAM BELA PIERCE ..... Harpswell Center
PHILIP PORTER SNOW ..... Biddeford Pool
JAMES ADELBERT WAKEFIELD, JR., *With High Distinction* ..... Cumberland Center
EDWIN PARKER WEBSTER, JR. ..... Auburn
ELDREDGE BROWN WOODS ..... Kittery

IN ELECTRICAL ENGINEERING

JOHN MATTHEWS COOMBS, *With High Distinction* ..... Boothbay Harbor
ALFRED BENTLY COX ..... Livermore Falls

THOMAS WILLARD CRANE ..... South Portland
JOHN MARSHALL ETTER, *With High Distinction* ..... Bar Harbor
JOHN WILFRID FLANAGAN ..... Bangor
HARLAND FRANKLIN MCPHERSON ..... Gray
WENDELL EUGENE MATCHETT ..... Bangor
JUSTIN JOSEPH NAVISKI ..... Lewiston
ELMER WOODBURY RANDALL, JR. ..... Westbrook
GEORGE WILLIAM SCOTT ..... Old Town

IN GENERAL ENGINEERING

GERALD GIBSON BEVERAGE, *With Distinction* ..... North Haven
JAMES ALDEN BOARDMAN ..... Orono
JAMES WILDER HAGGETT ..... North Edgecomb
KENNETH LAWRENCE IRELAND ..... Biddeford

IN MECHANICAL ENGINEERING

WILLIAM FRANCIS BARKER, *With Distinction* ..... Stamford, Conn.
FRANK RAYMOND COWAN, JR. ..... Brewer
CHARLES FRANCIS DEXTER ..... Norwood, Mass.
EDWARD COE HANSON ..... South Swansea, Mass.
VINCENT LAFOREST HATHORN ..... Pittsfield
WILLIAM WYMAN LEWIS, *With Distinction* ..... Oakland
HENRY PHINNEY LITTLE ..... Augusta
RUTLEDGE MORTON ..... Portland
LUTHER ALDEN PAGE ..... Waterville
LESLIE REED SEEKINS ..... Richmond
HOWARD GERARD STEINBERG ..... Brooklyn, N. Y.
ASHER ELWOOD SYLVESTER ..... Eustis
DAVID PIERCE WELLMAN ..... Lewiston
WILLIAM WALTON WIGHT ..... Bethel

IN PULP AND PAPER TECHNOLOGY

FIRTH LOMBARD DENNETT ..... Brownfield
WILLIAM PETERS HINCKLEY ..... Bluehill
CARROLL ALFRED HOMAN ..... Portland
ROBERT ANDREW THOMPSON ..... West Enfield
DONALD WASHINGTON ..... Sanford

Advanced Degrees

Master of Arts

IN BIOLOGY

Howard Charles Reiche (B.A., Maine, 1924) ..... Portland
The Measure of Physical Fitness among a Group of Secondary School Boys and Its Possible Correlation with Scholastic Performance

IN CLASSICS

Lawrence Augustine Mann (B.A., Maine, 1935) ..... Bangor
The Exchange of Letters between Ausonius and Saint Paulinus of Nola

IN EDUCATION

Helen Natalie Mayo (B.A., Maine, 1926) ..... Brasher Falls, N. Y.
A History of the Development of Teacher Training and Teacher Certification in the State of Maine

Frederic Coleman Murphy (B.A., Maine, 1928) ..... Berlin, N. H.
An Investigation of the Effect of the Social Studies Curriculum upon Fifty Attitudes

Ermo Houston Scott (B.A., Maine, 1931) ..... Castine
A Survey of the Student Personnel in the Maine State Normal Schools

Roy Upton Sinclair (B.S., Bates, 1926) ..... Pittsfield
A Survey of the Position of Secondary School Athletic Coach in the State of Maine

IN ENGLISH

Eupha Bonham (A.B., Concord State Teachers' College, 1924) ..... Ashland, Ky.
The Use of Coincidence in the Novels of Thomas Hardy

Rose Snider (B.A., Maine, 1933) ..... Portland
Satire in the Comedies of Congreve, Sheridan, Wilde, and Coward

IN FRENCH

Phyllis Hussey Davidson (A.B., Wheaton, 1922) ..... Portland
Connotations of the term *pièce à thèse*

IN HISTORY

GEORGE MARION FIELD (B.A., Maine, 1932) ..... Detroit
Government of Maine Towns

IN MATHEMATICS

FRANK HAROLD TODD (B.S., Bowdoin, 1935) ..... Topsham
Conformal Mapping and Its Application to the Graphical Representation of Lines of Force and Equipotential Surfaces

IN PHYSICS

HOWARD ERNEST ETTER (B.A., Maine, 1935) ..... Bar Harbor
A Study of Alternating Current Galvanometers

IN PSYCHOLOGY

EVA MYRTLE BISBEE (B.A., Maine, 1934) ..... Portland
An Investigation of Factors Other than Intelligence which Influence School Achievement in the Elementary Grades

HELEN ANNA LENGYEL (B.A., Maine, 1927) ..... Orono
A Study in Comparison of Foot and Hand Reaction Time of Women Athletes and Non-Athletes

MARION ELIZABETH ROGERS (B.A., Maine, 1930) ..... Orono
An Experimental Study of Certain Reversible Figures

IN ZOOLOGY

MARGARET ANNA BUCK (B.A., Maine, 1932) ..... Bangor
A Study of Seasonal Variation in the Occurrence of Protozoa, Rotifera, and Lower Crustacea of Goodrich Pond

MASTER OF SCIENCE

IN AGRICULTURAL ECONOMICS

FRED PERLEY LORING (B.S., Maine, 1916) ..... Orono
A Study of Farm Relief under the Roosevelt Administration

IN AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

ANDREW ELWELL WATSON (B.S., Maine, 1934) ..... Oakland
An Economic Study of Land Utilization in Five Towns in Cumberland County

IN BACTERIOLOGY

ARNOLD EVANS HOOK (B.S., Wisconsin, 1934) ..... Fort Atkinson, Wis.
Bacteriostatic Action of Brilliant Green on Members of the Colon-Aerogenes Group and their Intermediates

IN BIOCHEMISTRY

BASIL GEORGE STAPLES (B.S., Maine, 1935) ..... Kittery
Determination of the Particle Size of a Potato Mosaic Virus by Ultrafiltration

IN BOTANY

CLIFFORD EGERTON LLOYD (B.S., Cornell University, 1932) ..... Bloomingburg, N. Y.
The Temperature Factor in the Sexual Reproduction of Marchantia Polymorpha L.

IN CIVIL ENGINEERING

HORACE ASA PRATT (B.S., Maine, 1930) ..... Orono
A Geographical, Geological, and Statistical Study of Maine Sands and Gravels

IN DAIRY INDUSTRY

GARNET EDWARD DAVIS (B.S., Maryland, 1934) ..... Rocks, Md.
The Inherent Enzymes in Milk and Cream Producing Abnormal Flavors

IN EDUCATION

ROLAND ERNEST CURRIER (B.S., Bates, 1926) ..... Franconia, N. H.
An Investigation of the Techniques Used in the Secondary Schools of Maine as Follow-Ups to Health Inspection to Guarantee Health Correction

IN ENTOMOLOGY

JEAN CATHARINE ROBERTSON BURNHAM (B.A., New Brunswick, 1935) ..... Fredericton, N. B.
Aphid Studies with Special Reference to Vectors of Certain Plant Diseases

IN HOME ECONOMICS

SYLVIA ALPERT (B.S., Maine, 1935) ..... Bangor
The Vitamin C Potency of Pickles Made in Maine Households as Determined by a Chemical Titration Method

IN MECHANICAL ENGINEERING

SILAS LORING BATES (B.S., Maine, 1935) ..... Portland
An Investigation of the Effect of Plastic Torsion on the Fatigue Strength of Mild Steel in Reversed Bending

STANLEY PAUL YOUNG (B.S., Maine, 1934) ..... Orono
An Investigation of the Effect of Under-Stressing and Over-Stressing a Mild Steel in Reversed Bending

IN PSYCHOLOGY

DOROTHY CRAIGHEAD ANDREWS (B.S. in Ed., M.A., Pennsylvania, 1928, 1931) ..... Orono
A Survey of the Elementary Schools in the State of Maine Concerning Procedures in Operation and Facilities Available for the Education and Training of Children of Intelligence Quotients Ranging from Thirty to Eighty

IN PULP AND PAPER TECHNOLOGY

JIUN SHYR (B.S., National Tsing Hua University, 1934) .... Shanghai, China
A Study of Mechanical Pulp Fractionation and Efficiency of Commercial Refiners with Appleton Selective Screen

MASTER OF SCIENCE IN EDUCATION

ARTHUR LEWIS JONES (B.S. in Ed., Boston University, 1931) ..... Framingham, Mass.
The Effects of Summer Programs upon a Boy's Physical Fitness

DONALD STEVENS KIMBALL (B.M.E., Northeastern, 1925) ..... New Haven, Conn.
A Proposed New Type Course in Physics: Section on Heat
EDWARD LYON LINSCOTT (B.S. in Ed., Maine, 1933) ..... Bluehill
The History of Secondary Education in Hancock and Washington Counties in Maine

Certificate

IN THE TWO-YEAR COURSE IN AGRICULTURE

CHESLEY LELAND CRIPPS ..... Camden
LLOYD EDGAR PRATT ..... Gorham
EARL MILLS SPROWL ..... Appleton

Departmental Honors

COLLEGE OF ARTS AND SCIENCES

IN CLASSICS

FAITH WHITTIER HOLDEN
VIRGINIA COBB NELSON

IN COMPARATIVE LITERATURE

DONALD MAX FITCH

IN ECONOMICS AND SOCIOLOGY

THOMAS MASON HILL

IN GERMAN

JOSEPH MATTHEW HOTZ
ARLENE MERRILL
MILDRED LUCILE SAWYER

IN HISTORY AND GOVERNMENT

SUSAN BELLE FROST
JUNIUS WILSON BIRCHARD

IN MATHEMATICS AND ASTRONOMY

ALICE WOOD CAMPBELL

IN PHYSICS

MERLE HENRY BRAGDON

IN PUBLIC SPEAKING

CHARLES EUGENE O'CONNOR

COLLEGE OF TECHNOLOGY

IN CHEMISTRY

RICHARD OLIVER GORDON
ROYAL ORMAN MEHANN

IN CHEMICAL ENGINEERING

THOMAS FRANK REED
LEONARD ALTON THOMSEN

IN CIVIL ENGINEERING

ACTOR THOMPSON ABBOTT, JR.
JOHN PORTER HENNINGS
JAMES ADELBERT WAKEFIELD, JR.

IN ELECTRICAL ENGINEERING

JOHN MATTHEWS COOMBS
JOHN MARSHALL ETTER

IN GENERAL ENGINEERING

KENNETH LAWRENCE IRELAND

IN MECHANICAL ENGINEERING

WILLIAM FRANCIS BARKER
FRANK RAYMOND COWAN, JR.
WILLIAM WYMAN LEWIS
HENRY PHINNEY LITTLE

IN PULP AND PAPER TECHNOLOGY

FIRTH LOMBARD DENNETT

The following received commissions as Second Lieutenant, Officers' Reserve Corps

INFANTRY

ACTOR THOMPSON ABBOTT, JR.
HAROLD THOMAS BOARDMAN
CHARLES FRANCIS DEXTER
MAXIM JAMES DOWD
GEORGE MARSHALL FRAME
JOHN SIMMONS GETCHELL
ROBERT MARSHALL HAGGETT
ALVIN LYMAN HEALD
LYNDON MAYNARD KELLER
ROBERT LOWE LITTLEHALE, JR.
CARROLL CURATIA PARKER
PHILIP PORTER SNOW
JAMES ADELBERT WAKEFIELD, JR.
DONALD WASHINGTON

Honorary Degrees

HARMON GUSTAVUS ALLEN, Master of Arts
CORNELIUS EDWARDS CLARK, Doctor of Humane Letters
RAYMOND EARLE DAVIS, Doctor of Engineering
WILLIAM TRUFANT FOSTER, Doctor of Laws
SAN LORENZO MERRIMAN, Master of Arts
JAMES MUILENBURG, Doctor of Humane Letters
STEPHEN EDMUND PATRICK, Master of Arts
WILLIAM VEAZIE PRATT, Doctor of Laws
EDWARD HERRMANN THOMSON, Doctor of Laws

Catalog of Students

Major subjects are indicated as follows: Ae. Agricultural Education, Ag. Agronomy, Agr. Agriculture, An. Animal Husbandry, Bc. Biological Chemistry, Bl. Biology, Bt. Botany, By. Bacteriology, Ch. Chemistry, Ch.Eng. Chemical Engineering, Ce. Civil Engineering, Cl. Classics, Dh. Dairy Husbandry, Di. Dairy Industry, Dr. Drama, Dt. Dairy Technology, Ed. Education, Ee. Electrical Engineering, Eh. English, En. Entomology, Eng. Engineering (Course not specified), Es. Economics and Sociology, Fm. Agricultural Economics and Farm Management, Fr. French, Fy. Forestry, Ge. General Engineering, Gm. German, Gt. Government, Hy. History, He. Home Economics, Ht. Horticulture, Lt. Latin, Me. Mechanical Engineering, Ms. Mathematics, Pa. Pulp and Paper Technology, Pc. Physiological Chemistry, Pg. Physiology, Ph. Poultry Husbandry, Pl. Philosophy, Pp. Plant Pathology, Ps. Physics, Py. Psychology, Rl. Romance Languages, Wc. Wild Life Conservation, Zo. Zoology. Chemistry in the College of Arts and Sciences is indicated by Ch.A.

GRADUATE STUDENTS

Arno, John Raymond, B.S., Ag. Maine, 1936	*Dexter*	105 Main Street
Bailey, Dean Manter, B.S., Bl. Maine, 1936	*Waterville*	Park Street
Bartlett, John Robert, B.A., Eh. Maine, 1934	*Orono*	56 Park Street
Bessom, Joseph Harold, B.A., B.D., Hy. St. Stephen's, 1925, Episcopal Theological School, 1928	*Old Town*	11 South Brunswick Street, Old Town
Bowie, Harold Everett, B.A., M.A., Ms. Maine, 1928, 1932	*Orono*	25 Broadway
Bradford, Robert Bruce, B.S., Me. Maine, 1934	*Orono*	77 Mill Street
Bragdon, Merle Henry, B.A., Ps. Maine, 1936	*Westfield*	25 Grove Street
Coady, Donald Lewis, B.S., Ed. Maine, 1921	*Old Town*	250 Brunswick Street, Old Town

Coombs, John Matthews, B.S., Ee. Maine, 1936	*Boothbay Harbor*	86 Mill Street
Corbett, Alan Campbell, B.S., An. Maine, 1936	*Orono*	Campus
Cram, Ernest Mayland, B.S., Ch. Maine, 1935	*Winthrop*	23 Park Street
Crane, Thomas Willard, B.S., Ee. Maine, 1936	*South Portland*	Σ X House
Crossland, Charles Edward, B.S., Es. Maine, 1917	*Orono*	144 College Road
Dick, Leo Alexander, B.S., By. Wisconsin, 1935	*Marshfield, Wis.*	51 North Main Street
Douglas, Lydia Myers, B.A., Eh. Maine, 1930	*Brunswick*	24 University Place
Edwards, Albert Edward, B.Sc., Ch. New Brunswick, 1936	*Hartland, N. B.*	38 Oak Street
Foster, Harry Kittredge, B.S., Ed. Bates, 1934	*Canton*	11 Main Street
Galluba, Frances Myrtle, B.S., Ed. Columbia, 1933	*Bangor*	56 Poplar Street, Bangor
Gordon, Richard Oliver, B.S., Ch. Maine, 1936	*Portland*	Σ N House
Haskell, Margaret Augusta, B.S., Eh. Hamline, 1935	*Stonington*	33 Peters Street
Hatch, Hugh Temple, B.Sc., Ch. New Brunswick, 1936	*Quebec, P. Q.*	20 Grove Street
Jacobson, Karl Andrew, B.S., Wc. Minnesota, 1936	*Eagle Lake, Minn.*	45 Mill Street
Johnson, Lewis Olof, B.S., Ce. Maine, 1934	*Bangor*	131 Birch Street, Bangor
Lee, Margaret Elizabeth, A.B., Eh. Middlebury, 1923	*Easthampton, Mass.*	74 North Main Street
Lendo, Alexander Chester, B.S., Ce. Worcester Polytechnic Institute, 1933	*Otter River, Mass.*	Σ A E House
Lieberman, Arthur Norman, A.B., Zo. Bowdoin, 1935	*Bangor*	40 Parkview Avenue, Bangor
Light, Elden Everett, B.S., Ch.Eng. Maine, 1931	*Orono*	48 Pine Street
Linden, Carl Arthur, B.S., Ee. Tufts, 1936	*Everett, Mass.*	134 College Road
Locke, Anna, A.B., Ed. Smith, 1935	*Cambridge, Mass.*	33 Bennoch Street

McIntosh, Carolyn Elizabeth, B.A., Ed. Maine, 1932	*Bangor*	9 Dole Court, Bangor
McIntosh, Jennie Amabel, B.Sc., Bc. New Brunswick, 1936	*Bath, N. B.*	20 Forest Avenue
Marsh, Joel White, B.S., Wc. Maine, 1935	*Portland*	Φ K Σ House
Matchett, Wendell Eugene, B.S., Ee. Maine, 1936	*Bangor*	86 Mill Street
Meinecke, Charlotte Drummond, B.A., Eh. Smith, 1928	*Bangor*	91 West Broadway, Bangor
Morris, Thomas Whaley, B.Sc., Ps. Michigan State, 1936	*Lansing, Mich.*	47 Mill Street
Neff, Beatrice Diane, B.A., M.A., Hy. Brooklyn, 1932; Carroll, 1936	*Orono*	158 Main Street
Newman, William Proctor, Jr., B.S., Ch.Eng. Maine, 1936	*Bangor*	90 Royal Road, Bangor
O'Brien, Donal Francis, B.S., Wc. Rhode Island State, 1936	*Newport, R. I.*	45 Mill Street
Prince, Alton Ernest, B.S., Bt. Maine, 1936	*Orono*	279 Main Street
Smith, Harold Winston, B.S., Di. Illinois, 1936	*Urbana, Ill.*	25 Myrtle Street
Spalding, Edward Lewis, B.S., Wc. Maine, 1935	*Newburyport, Mass.*	K Σ House
Sparrow, Theron Alonzo, B.S., Me. Maine, 1924	*Orono*	10 Main Street
Tewksbury, Clara Virginia, B.S. in R.E., Eh. Boston University, 1931	*North Brooksville*	South Hall

SENIORS

Adams, Winford Charles, Zo.	*Island Falls*	68 Main Street
Akeley, Robert Vinton, Ag.	*Presque Isle*	Poultry Experiment Plant
Aliberti, Henry Joseph, Ce.	*Portland*	Θ X House
Allen, Robert Laurie, Zo.	*Rockland*	K Σ House
Alpert, Sylvia Elizabeth, Zo.	*Bangor*	Balentine Hall
Andersen, Henry Testman, Ge.	*Lyme, Conn.*	Δ T Δ House

Ashby, Hope Elizabeth, He.	*Caribou*	North Hall
Ashworth, Mabelle Elizabeth, Hy.	*Orono*	88 North Main Street
Austin, Frances Elizabeth, Eh.	*Milbridge*	South Hall
Averill, John Frank, Es.	*Fort Fairfield*	Σ N House
Avery, Marguerite Lillian, Py.	*Haverhill, Mass.*	Colvin Hall
Avery, Newell Albert, Eh.	*Bangor*	77 Parkview Avenue, Bangor
Bagley, Wendell Merton, Ge.	*Troy*	56 North Main Street
Barry, Manley Leroy, Zo.	*Orono*	80 Pine Street
Bates, Edwin Hill, Fm.	*Bath*	Φ M Δ House
Beisel, Ralph Anthony, Fy.	*Lehighton, Pa.*	Σ N House
Bell, Alton Leroy, Ge.	*Dennysville*	H. H. Hall
Bennett, John Francis, Jr., Ce.	*Portland*	Θ X House
Berry, Richard Nathaniel, Ge.	*Malden, Mass.*	B Θ Π House
Bertels, Barbara, Eh.	*Bangor*	Colvin Hall
Bessom, John Albert, Pa.	*Marblehead, Mass.*	Σ A E House
Bingle, Ethel Annette, Eh.	*Lynn, Mass.*	Colvin Hall
Bishop, Audrey Elaine, He.	*Caribou*	Balentine Hall
Bishop, William Freeman, Zo.	*Caribou*	Φ H K House
Black, Ruby Virginia, He.	*Portland*	Balentine Hall
Borden, Bertha Caroline, Eh.	*South Portland*	Balentine Hall
Bourgoin, Raoul Joseph, Ed.	*Frenchville*	90 Park Street
Bower, Philip Nichols, Me.	*Auburn*	Δ T Δ House
Boyle, Francis Waldemar, Eh.	*Old Town*	21 Summer Street, Old Town
Boynton, Evelyn Frances, He.	*Millinocket*	Balentine Hall
Braley, Richard Donald, Fm.	*Augusta*	A T Ω House
Brarmann, Edward Francis, Ht.	*Englewood, N. J.*	A T Ω House
Brewer, Everett Leighton, Ch.	*Portland*	Σ N House
Brewster, Wendell Swanton, Zo.	*Dexter*	A T Ω House
Briggs, Richard Wilbur, Fm.	*Canton*	Δ T Δ House
Brocato, Samuel Anthony, Ed.	*Franklin*	32 Pierce Street
Brooks, Mary Priscilla, Ed.	*Eastport*	17 Spencer Street
Brown, Carolyn May, Eh.	*Skowhegan*	Balentine Hall
Brown, Henry Maxson, Ee.	*Francestown, N. H.*	Σ X House
Brown, Irma Dunning, Ed.	*Old Town*	Balentine Hall
Brown, Raynor Keith, Fy.	*Norway Lake*	Σ X House
Brown, Woodford Bradbury, Ee.	*Bangor*	Φ H K House
Bryant, Elwood Danton, Me.	*Bangor*	Φ Γ Δ House
Bryant, Katharine True, Hy.	*Bangor*	265 Hammond Street, Bangor

Buck, Charles Barstow, Ph.	*Naples*	Σ N House
Buckminster, Lloyd Allen, Me.	*Sedgwick*	Δ T Δ House
Bunker, Katherine Cook, Py.	*Calais*	Balentine Hall
Burke, Paul Webber, Zo.	*Bangor*	State Street, Bangor
Burnett, Ruth Charlotte, Es.	*South Brewer*	447 South Main Street, South Brewer
Butterfield, Walter Lamont, Jr., Zo.	*Dexter*	Α T Ω House
Cabeen, Robert Anderson, Ch.	*Provincetown, Mass.*	Δ T Δ House
Calderwood, Louise Rand, Eh.	*Bath*	Balentine Hall
Calvert, Pauline, Ht.	*Orono*	20 Forest Avenue
Cameron, James Craig, Ch.Eng.	*Old Town*	Λ X Α House
Carlisle, Norman Davis, Es.	*Bangor*	Φ Γ Δ House
Carr, Robert Venn, Tech.	*Bridgeport, Conn.*	Α T Ω House
Carroll, Clifton Lewis, Fy.	*New Harbor*	Φ M Δ House
Casasa, Philip Thomas, Zo.	*Portland*	Θ X House
Chapman, William Follett, Fy.	*Portland*	Φ K Σ House
Cleaves, Arthur Tobey, Me.	*Sangerville*	56 North Main Street
Cliff, Henrietta, He.	*Lincoln*	Balentine Hall
Coffin, Eugene, Fm.	*Harrington*	Stillwater
Cohen, Celia, Ch.A.	*Portland*	Balentine Hall
Colby, Barbara, Ed.	*South Paris*	Balentine Hall
Conner, Harry Brooks, Pa.	*Castine*	Κ Σ House
Corbett, Robert Francis, Dt.	*East Parsonsfield*	Farm Boarding House
Cotes, Kermit Rodney, Ch.Eng.	*Derby*	Φ H K House
Cotton, Edward Burnham, Ge.	*Bangor*	17 Broadway, Bangor
Covell, Mildred Edith, He.	*Monmouth*	South Hall
Cox, Julia Bridget, Ed.	*Freeport*	164 College Road
Crouse, Margaret Eleanor, Eh.	*Crouseville*	50 Forest Avenue
Crowell, William Eleazor, Me.	*South Portland*	Λ X Α House
Crowley, Elmer Francis, Me.	*Greenville*	Φ H K House
Crozier, Thomas Joseph Allen, Es.	*Portland*	Θ X House
Currie, Anna Ruth, Ms.	*Bangor*	75 Maple Street, Bangor
Cyr, Joseph Wilfred, Ch.	*Bath*	12 Park Street
Daigle, Yvonne, Ed.	*St. Francis*	23 Pond Street
Davenport, Constance Lucille, He.	*Winter Garden, Fla.*	Balentine Hall
Davis, Charlotte Irma, Eh.	*Milford*	Milford
Delano, Charles Herbert, Fm.	*Bucksport*	Α Γ P House

Dennis, Lawrence, Zo.	*Ellsworth*	24 Oak Street
DeWick, Robert Ellison, Dt.	*Wiscasset*	K Σ House
Dimitre, Phyllis Marie, Eh.	*Calais*	Balentine Hall
Dingwall, Douglas, Ce.	*Presque Isle*	Φ H K House
Dinneen, William Robert, Fy.	*Willimantic, Conn.*	35 Grove Street
Dow, James Frederick, Me.	*Houlton*	Φ Γ Δ House
Duff, Alan Dallas, Jr., Me.	*Augusta*	A T Ω House
Dunlevy, Raymond Knowles, Fy.	*Danforth*	35 Grove Street
Dunton, Mary Alice, Eh.	*Bath*	Balentine Hall
Edwards, George Everett, Es.	*Lincoln*	Φ M Δ House
Eldridge, Oliver Fuller, Es.	*North Adams, Mass.*	Φ H K House
Elmore, Emily Meribah, He.	*Augusta*	Balentine Hall
Elwell, Floyd Manard, Fm.	*East Wilton*	25 Grove Street
Evans, Thomas Bramlett, Fy.	*Orono*	158 Main Street
Fay, Gardner Wilcox, Py.	*Needham, Mass.*	K Σ House
Felberg, Leonard, Me.	*Brooklyn, N. Y.*	T E Φ House
Fifield, Wilbert Hammond, Ce.	*Auburn*	Σ N House
Findlen, George Louis, Fm.	*Fort Fairfield*	A Γ P House
Folger, Faith Gertrude, Py.	*Fryeburg*	Balentine Hall
Folley, Cranston Wesley, Me.	*South Portland*	382 College Road
Folley, Gayland Earl, Ht.	*South Portland*	382 College Road
Forman, William Nelson, Fm.	*Fitchburg, Mass.*	A Γ P House
Foster, Ernest Maxwell, Ch.Eng.	*Weld*	Φ H K House
Frazier, Madeline Louise, Hy.	*Norwood, Mass.*	Balentine Hall
Gaetz, Leonard Halley, Es.	*White Plains, N. Y.*	Σ N House
Galbraith, Joseph, Me.	*Pleasant Plains, Staten Island, N. Y.*	B Θ Π House
Gardner, Elizabeth, Eh.	*Orono*	133 Main Street
Gardner, John Cook Moore, Jr., Ed.	*Castine*	35 Grove Street
Gillespie, Arthur Merton, Zo.	*Ellsworth*	28 Mill Street
Golden, Evelyn Gertrude, Es.	*Bangor*	Balentine Hall
Golding, Carl Foulkes, Me.	*Milo*	K Σ House
Goldsmith, Jeannette, Ed.	*South Paris*	Balentine Hall
Gonya, Yvonne Marie, Rl.	*Millinocket*	Balentine Hall
Googins, Elva Elizabeth, Hy.	*Ellsworth*	Balentine Hall
Grange, George Robert, Fm.	*Smyrna Mills*	Φ Γ Δ House
Grant, Gardner Coffin, Es.	*Cherryfield*	Σ X House
Green, Walter Irving, Eh.	*Bradford, Mass.*	35 Grove Street
Greene, John Cornell, Fy.	*Orono*	18 Forest Avenue

Hardison, Helen Crane, Eh.	*Santa Paula, Calif.*	133 Main Street
Harrison, George Ogilvie, Es.	*Portland*	Σ X House
Hart, John Emerson, Ch.A.	*Orono*	13 Pond Street
Haskell, William Verdelle, Ed.	*Presque Isle*	Φ H K House
Hastings, Louise Eliza, Eh.	*Bangor*	41 Linden Street, Bangor
Hatfield, Lloyd Douglas, Ed.	*South Brewer*	R.F.D. #8, South Brewer
Hawkes, Ralph Wilson, Jr., Es.	*York Village*	Σ X House
Heald, Almon Francis, Ag.	*Union*	Σ A E House
Hebel, Carl Gustave, Me.	*Brewer*	178 Parker Street, Brewer
Hinckley, Jerold Maxwell, Py.	*Bluehill*	Σ X House
Hitchings, George Philip, Es.	*Orono*	2 Summer Street
Homstead, Robert Howard, Ch.	*Orono*	59 Park Street
Hooper, William Howard, Fy.	*Biddeford*	Λ X A House
Hopkins, Bernice Willard, Ms.	*Belfast*	Balentine Hall
Horne, Allan Edgerly, Es.	*Milo*	K Σ House
Houghton, Thomas Edward, Jr., Ag.	*Fort Fairfield*	Σ N House
Houston, George Laurence, Fy.	*Bangor*	A Γ P House
Hubbard, Ira Chase, Fy.	*South Gardiner*	43 Main Street
Hunnewell, William French, Pa.	*Madison*	Σ A E House
Hutchings, Leslie Morton, Dt.	*Portland*	112 H. H. Hall
Hutchinson, Dorothy Beatrice, He.	*Old Town*	305 Center Street, Old Town
Jackman, William Lounsbury, Eh.	*Orono*	College Road
Jackson, Nolan Berry, Fm.	*Norway*	Φ M Δ House
Jewell, Frances Elizabeth, He.	*Easton*	47 Mill Street
Jones, Beatrice Florence, He.	*Orono*	164 College Road
Jones, Robert Carroll, An.	*Wales*	A Γ P House
Jordan, Darrel Francis, Es.	*Livermore Falls*	Λ X A House
Jude, Judson Austin, Pa.	*Ellsworth Falls*	K Σ House
Keegan, Clarence Kermit, Fm.	*Robinson's*	Φ H K House
Kierstead, William Irving, Ch.Eng.	*Rockland, Mass.*	Δ T Δ House
Kilgour, Donald Campbell, Me.	*Lovell*	Φ K Σ House
Kimball, Ruth, Eh.	*Old Town*	2 Gilman Falls Avenue, Old Town
Koran, Adolph Adam, Gm.	*Houlton*	170 Hancock Street, Bangor

Lakin, John Robert, Ee.	*New Harbor*	Φ M Δ House
Lancaster, Barbara Alice, Rl.	*Old Town*	154 Stillwater Avenue, Old Town
Lancaster, Vaughan Handy, Fy.	*Brownville*	54 Hill Street
Landers, Albert Schoppee, 3rd, Fy.	*Bangor*	21 Parkview Avenue, Bangor
Lane, Stuart Pinkham, Fy.	*Lincoln*	Φ M Δ House
Larsen, Marion Frieda, Es.	*Cumberland Center*	North Hall
Laverty, Robert Edward, Fy.	*Newton Centre, Mass.*	Λ X Λ House
Leathers, Kenneth Hewes, Py.	*Kennebunkport*	102 H. H. Hall
Levenson, Roger, Hy. & Gt.	*Bangor*	87 Park Street
Lewis, Ruth Edith, Py.	*Springfield*	Colvin Hall
Litchfield, Leonard Percy, Me.	*Bath*	Φ Γ Δ House
Littlefield, Regina Carol, Py.	*Portland*	Balentine Hall
Lloyd, Raymond Arthur, Me.	*Portland*	Λ T Ω House
Lutz, Flora Hermion, Cl.	*Old Town*	45 South Fourth Street, Old Town
McCausland, Dexter Linwood, Ee.	*Portland*	384 College Road
McDougall, John Robert, Ee.	*Bangor*	442 Hancock Street, Bangor
MacKenzie, Jeannette Frances, Es.	*New Haven, Conn.*	Colvin Hall
MacKinnon, Marjorie, Cl.	*Topsham*	Balentine Hall
McKusick, Robert Elwin, Dh.	*Guilford*	Farm Boarding House
McLaughlin, Gustavus Abbott, Dt.	*Dyer Brook*	Φ H K House
McLellan, George William, Ps.	*Old Town*	144 South Brunswick Street, Old Town
Mack, Everett Belknap, Ee.	*Bangor*	Σ A E House
Mader, George Holland, Me.	*Beverly, Mass.*	Φ Γ Δ House
Martin, Wesley Maxwell, Ce.	*Vineyard Haven, Mass.*	Φ M Δ House
Mayo, Ronald Ira, Ce.	*Brewer*	137 Wilson Street, Brewer
Mealey, Philip Rittal, Ed.	*Machias*	23 Spencer Street
Merrill, Edward Osgood, Ch.	*Orono*	178 Main Street
Messeck, William Henry, Jr., Fy.	*Haverhill, Mass.*	134 College Road
Mickalide, Harry Lambert, Ed.	*Farmington*	1 Middle Street
Miller, John Fessenden, Zo.	*Camden*	Σ A E House

Miniutti, John Joseph, Me.	*North Berwick*	308 H. H. Hall
Morgan, Paul Winthrop, Ch.	*Thomaston*	Star Route, College Road
Morgan, Russell Lermond, Ch.	*Thomaston*	Star Route, College Road
Morrison, James Bryan, Jr., Ch.Eng.	*Bradford Center*	Φ K Σ House
Mullaney, Roderick Edward, Jr., Ce.	*Bangor*	72 Garland Street, Bangor
Murphy, Leo Joseph, Py.	*Eastport*	106½ North Main Street
Murphy, Reginald Frey, Me.	*Bangor*	Σ A E House
Murray, John Joseph, Eh.	*Bath*	K Σ House
Naylor, Josie Victoria, He.	*Cumberland Mills*	South Hall
Neale, Leander Martin, Ed.	*East Machias*	Star Route, College Road
Nickerson, Clyde Billings, Ed.	*Belfast*	Stillwater
Norman, Ralph Linwood, Ce.	*South Berwick*	Σ N House
O'Connor, James Francis, Es.	*Augusta*	6 Mill Street
Ohler, Robert Loring, Fy.	*Newton Centre, Mass.*	Λ X A House
Olsen, Irene Annie, Hy.	*Patten*	84 Fourth Street, Old Town
Oxner, Karl Robert, Es.	*South Berwick*	Σ N House
Page, David Donnell, Es.	*Fort Kent*	Φ Γ Δ House
Palmer, Ralph Simon, Zo.	*Brunswick*	60 Park Street
Parsons, Frederick Webster, Es.	*West Medford, Mass.*	A T Ω House
Parsons, Shirley Robinson, Pa.	*South Paris*	Φ M Δ House
Peabody, Arland Wentworth, Ee.	*East Corinth*	Σ X House
Perkins, Bernard Gordon, Ms.	*Orono*	80 North Main Street
Perkins, Edward Arnold, Ed.	*Castine*	35 Grove Street
Pfuntner, Richard Alonzo, Ee.	*Guilford*	18 Oak Street
Piper, Donald Albert, Ag.	*Stetson*	Farm Boarding House
Poulsen, Andrew Waldemar, Fy.	*Hudson Heights, N. J.*	College Road
Proctor, Morris Dewing, Me.	*Portland*	B Θ Π House
Pruett, Kenneth Sherwood, Fy.	*Kittery*	Φ M Δ House
Rand, Beverly Patterson, Fm.	*Sherman Mills*	Φ H K House
Rand, Edwin Holmes, Hy.	*Unity*	25 Grove Street
Raymond, Gordon Byron, Ee.	*Robinson's*	Φ K Σ House

Redman, Edward Homer, Pl.	*Bangor*	42 Elizabeth Avenue, Bangor
Rich, Avery Edmund, Ag.	*Charleston*	Α Γ Ρ House
Rich, Lucinda Ewer, He.	*Charleston*	Home Management House
Roderick, Burleigh Houston, Ed.	*Augusta*	Β Θ Π House
Rowlands, Willett, Fy.	*Needham, Mass.*	Κ Σ House
Russell, Sargent, Fm.	*North Leeds*	83 Park Street
Salisbury, Robert Holmes, Hy.	*Ellsworth*	Α Τ Ω House
Sanders, Naida Barrows, Eh.	*Portland*	Balentine Hall
Saunders, Wesleyan Bell, Zo.	*New York, N. Y.*	58 Main Street
Sawyer, Charles Kempton, Me.	*Scarsport*	Κ Σ House
Scamman, Lucian Hollis, By.	*Portland*	105 Oak Hall
Scott, Hilda Gertrude, Ed.	*Bath*	Colvin Hall
Severy, Lawrence Arthur, Me.	*Marblehead, Mass.*	Σ Α Ε House
Shannon, Florence Catherine, Cl.	*Bangor*	779 Essex Street, Bangor
Shaw, Howard Earle, Jr., Ce.	*Portland*	Φ Η Κ House
Sibley, Charles Byron, Ag.	*Stillwater*	Stillwater
Simmons, Martha, Ed.	*Sargentville*	North Hall
Smith, Lester Hurlin, Dh.	*Buxton*	Α Γ Ρ House
Smith, Roger William, Zo.	*Presque Isle*	Φ Η Κ House
Smith, Winslow Baker, Ge.	*Brewer*	Δ Τ Δ House
Snare, Josephine Weick, Cl.	*Hampden Highlands*	Balentine Hall
Snow, Margaret, Py.	*Portland*	Balentine Hall
Spear, Richard Marcus, Me.	*Thomaston*	Δ Τ Δ House
Stagg, Howard Josiah, Es.	*Syracuse, N. Y.*	Φ Γ Δ House
Staples, Richard Byron, Ce.	*Gardiner*	Λ Χ Α House
Stevens, Carol Elizabeth, Eh.	*Bath*	The Maples
Stewart, Alice Rose, Hy.	*Brunswick*	Balentine Hall
Stillman, Jane, Py.	*Northeast Harbor*	Balentine Hall
Stillman, William Phillips, Pa.	*Greene, R. I.*	Α Χ Α House
Stinchfield, Charles Howard, Ch.	*Wayne*	Λ Χ Α House
Stinchfield, John Clark, Ch.	*Wayne*	Λ Χ Α House
Story, Elizabeth Marion, Es.	*Pigeon Cove, Mass.*	Balentine Hall
Stoughton, Gerald Earle, Ge.	*Orono*	84 College Road
Stuart, Edward, Jr., Fy.	*Rockport, Mass.*	Φ Η Κ House
Sumner, Merton Rogers, Me.	*Rockland*	Θ Χ House
Swasey, Samuel Elliot, Me.	*Marblehead, Mass.*	Λ Χ Α House
Sylvester, Mervale Wesley, Fm.	*Mars Hill*	Φ Η Κ House

Thayer, Arthur Linwood, Jr., Me.	*Bangor*	13 Hayward Street, Bangor
Thayer, Margaret Llewelyn, He.	*Bangor*	13 Hayward Street, Bangor
Thompson, Dana, Fm.	*Presque Isle*	Φ H K House
Thompson, John Francis, Bc.	*Bangor*	State Hospital, Bangor
Titcomb, Helen Ernestine, Zo.	*New Gloucester*	Balentine Hall
Towle, Charles Hannaford, Ed.	*Portland*	64 Division Street, Bangor
Treat, Charles Forrest, Eh.	*Orono*	77 Mill Street
Trimble, George Richardson, Jr., Fy.	*Stowe*	R.F.D., College Road
Tripp, Arnold Riggs, Ch.Eng.	*Gray*	Δ T Δ House
True, Robert Moody, Fy.	*Newburyport, Mass.*	K Σ House
Verzoni, Ralph Peter, Fy.	*Waterville*	18 Forest Avenue
Viner, Leo, Es.	*Bangor*	339 Hancock Street, Bangor
Weatherbee, George Bradford, Jr., Eh.	*Hampden Highlands*	10 Oak Street, Old Town
Webb, Arthur Alton, Ed.	*Brooks*	36 College Road
Webb, Harold Lewis, Fm.	*Augusta*	102 Oak Hall
Wentworth, Ralph Eugene, Cl.	*Bangor*	30 Linden Street, Bangor
Wescott, Emery Newhall, Ch.Eng.	*Portland*	Λ X A House
Weymouth, Hildred Lillias, Ed.	*Gardiner*	60 Park Street
Whiting, William Lawrence, Ms.	*Portland*	K Σ House
Widrow, Lois Frances, Py.	*Portland*	Balentine Hall
Willett, Raymond Stanley, Ms.	*Stetson*	35 Hill Street
Williams, George Seth, Jr., Me.	*Gardiner*	B Θ Π House
Wilson, Newell Johnson, Me.	*Bath*	Φ Γ Δ House
Wing, Hope Eleanor, Rl.	*Fairfield*	Colvin Hall
Wood, Edward Parsons, Ge.	*North Edgecomb*	Δ T Δ House
Woodbury, Harold Mace, Fm.	*Portland*	Φ K Σ House
Woods, Nancy Cushing, Eh.	*Ellsworth*	Colvin Hall
Wooster, Helen Elizabeth, He.	*Old Town*	258 Center Street, Old Town
Young, Harland Avery, Ce.	*Matinicus*	Φ M Δ House
Young, Harold Edle, Fy.	*Miami, Florida*	48 Mill Street
Young, Marjorie Louise, Es.	*South Walpole, Mass.*	Balentine Hall

JUNIORS

Abbott, Helen Derry, Ed.	*Portland*	South Hall
Adams, Donald Sanford, Ce.	*Watertown, Mass.*	302 H. H. Hall
Adams, Ernest Eugene, Ch.Eng.	*South Brewer*	412 South Main Street, South Brewer
Additon, Elwood Prince, Ch.Eng.	*Rumford*	Φ Γ Δ House
Allen, Hervey Clifford, Es.	*Rockland*	K Σ House
Alpert, Sidney, Zo.	*Bangor*	137 State Street, Bangor
Ames, Sidney Ernst, Es.	*Orono*	22 Mill Street
Andrews, Ernest Frederick, Pa.	*Ticonderoga, N. Y.*	Φ Γ Δ House
Andrews, Ernestine Elizabeth, Rl.	*Bingham*	South Hall
Armstrong, James Oliver, Jr., Fy.	*Norwich, Conn.*	Φ M Δ House
Bailey, Charles Herbert, Fy.	*Lincoln*	Φ M Δ House
Baker, Vance Durgin, Me.	*The Forks*	K Σ House
Barnard, John Everett, Dh.	*Kittery*	A Γ P House
Barnes, Ronald Eugene, Ag.	*Fort Fairfield*	Φ H K House
Barone, Louis Nicholas, Zo.	*Quincy, Mass.*	18 Bennoch Street
Bartlett, Russell Doe, Fy.	*Rockland*	K Σ House
Bassett, Margaret, Py.	*Westbrook*	Colvin Hall
Bates, Keith Malcolm, Ht.	*Groton, Mass.*	Σ N House
Bean, James Lyle, En.	*Easton*	18 Bennoch Street
Beck, Fred Nelson, Es.	*Washburn*	A T Ω House
Benjamin, Marguerite Mary, He.	*Mars Hill*	Balentine Hall
Berkowitz, Leonard Irving, Gt.	*Mattapan, Mass.*	T E Φ House
Best, Douglas Raymond, Fy.	*St. Albans, Vt.*	Φ M Δ House
Beverage, Ray Jasper, Me.	*North Haven*	134 College Road
Billings, Hester Anita, Ms.	*Bangor*	50 Smith Street, Bangor
Blake, Kenneth Stanford, Eh.	*Dexter*	A T Ω House
Bottcher, Alfred Oscar, Tech.	*Worcester, Mass.*	Φ Γ Δ House
Bouchard, Roger Gerald, Es.	*Caribou*	Δ T Δ House
Boyer, Azalea Ladner, Eh.	*Kittery Point*	Balentine Hall
Boyer, Richard Porter, Jr., Ee.	*Newton, Mass.*	384 College Road
Bradbury, Francis Wilson, Zo.	*Brewer*	224 Wilson Street, Brewer
Britt, Richard Horn, Ce.	*Rockland*	24 Oak Street
Brookes, Leslie, Rl.	*Rockville, Conn.*	Σ X House
Brown, Barbara True, Eh.	*Bath*	Balentine Hall
Brown, Gilbert Merrill, Fm.	*Gloucester, Mass.*	Δ T Δ House
Brown, Lloyd Fremont, Ce.	*Augusta*	Δ T Δ House

Brown, Minnie Estelle, Ed.	*Waterville*	391 College Road
Bruce, Bettina Evelyn, He.	*Nahant, Mass.*	Balentine Hall
Bryant, Stuart Graham, Me.	*Newcastle*	Δ T Δ House
Burgess, Richard Furniss, Fy.	*Meriden, Conn.*	A T Ω House
Burke, Franklin Martin, Fy.	*Bangor*	State Street, Bangor
Butler, Donald Walton, Hy.	*Portland*	B Θ Π House
Butler, Ralph William, Ce.	*South Berwick*	Σ N House
Cain, Charles Yetts, Pa.	*Portland*	K Σ House
Calderwood, George Curtis, Zo.	*Roxbury, Mass.*	B Θ Π House
Carswell, David Flockhart, Ht.	*Bar Harbor*	Horticulture Greenhouse
Carter, Nelson Bradford, Ch.Eng.	*Brewer*	12 Brimmer Street, Brewer
Cary, Hugh Rudolph, Es.	*Newport*	A T Ω House
Chase, Martha Marden, Ed.	*Bucksport*	Colvin Hall
Chatterton, Alfred Francis, Es.	*Saugus, Mass.*	Θ X House
Chute, Gordon Libby, Fy.	*Harrison*	Σ A E House
Clark, Albert Lewis, Fy.	*Camden*	Φ K Σ House
Clark, John Tolman, Tech.	*Portland*	Φ Γ Δ House
Clark, William Frank, Ce.	*Sanford*	Δ T Δ House
Clement, June Vinette, He.	*Wellesley, Mass.*	Balentine Hall
Clifford, Ralph Edward, Fy.	*Dexter*	7 Forest Avenue
Clough, Susie Betty, He.	*Lewiston*	Balentine Hall
Cobb, Lucy Margaret, He.	*Belfast*	Balentine Hall
Cohen, Sylvia Esther, Py.	*Bangor*	50 East Summer Street, Bangor
Conley, Olive Elizabeth, Eh.	*Ellsworth*	South Hall
Costrell, Edwin Solomon, Eh.	*Bangor*	233 Parkview Avenue, Bangor
Costrell, Rose Lilian, Es.	*Bangor*	233 Parkview Avenue, Bangor
Cotting, Duncan, Es.	*Newton, Mass.*	B Θ Π House
Cox, Joan, He.	*Bangor*	Colvin Hall
Crafts, Howard Jefferson, Ch.Eng.	*Portland*	Λ X A House
Cramer, Francis Leroy, Ce.	*Bristol*	Λ X A House
Crockett, Maurice Harold, Eh.	*Stonington*	T E Φ House
Crouse, Arthur Leroy, Fm.	*Crouseville*	Φ H K House
Currier, Ethelmae, He.	*Caribou*	Balentine Hall
Curtis, Grace Rodger, Eh.	*Danforth*	Balentine Hall
Dalzell, Margaret Elizabeth, Ed.	*Old Town*	249 Center Street, Old Town
Dauphinee, Mildred Evelyn, Rl.	*Bangor*	60 Sixth Street, Bangor

Davis, Madeleine Crawford, Ed.	*Biddeford*	Balentine Hall
Deane, Phyllis Evelyn, Ed.	*Fort Fairfield*	17 Spencer Street
DeCoster, James Robert, Pa.	*South Portland*	Φ M Δ House
Deering, Mary Lowell, He.	*Orono*	160 College Road
DeLong, John Barker, Zo.	*Glens Falls, N. Y.*	466 North Main Street, Brewer
Denning, Lawrence Francis, Ph.	*Orono*	16 Pine Street
Diehl, Helene Winifred, Es.	*North Sullivan*	South Hall
Dixon, Mildred Mae, Rl.	*South Eliot*	Balentine Hall
Donagan, Ernest Hall, By.	*West Medford, Mass.*	Φ M Δ House
Doubleday, Edward Sherburne, Fy.	*St. Albans, Vt.*	Φ M Δ House
Douglass, John Quinn, Es.	*Hallowell*	9 Cooper Street, Old Town
Doyle, Edward Houlton, Jr., Es.	*Caribou*	Θ X House
Drummond, Elizabeth Beverly, Eh.	*Orono*	Colvin Hall
Dunlap, Stanley Thomas, Es.	*Portland*	Φ Γ Δ House
Edison, Harold, Ch.Eng.	*Brooklyn, N. Y.*	12 Pleasant Street
Edwards, Lewis William, Ce.	*South Portland*	Λ X A House
Edwards, Richard Stephen, Fy.	*Malden, Mass.*	A T Ω House
Eldridge, Merrill, Pa.	*Bangor*	26 Plaisted Street, Bangor
Ellingson, Albert Martin, Me.	*Milo*	Φ H K House
Elliott, Roderick Rogers, Fm.	*Montreal, West, Quebec*	Φ K Σ House
Emerson, Jerome Adolphus, Es.	*Corinna*	Corinna
Ernst, Morris Alonzo, Ce.	*York Village*	A T Ω House
Fairfield, Loran Radford, Me.	*South Portland*	Θ X House
Fellows, Nathan Warren, Jr., Wc.	*Scarsdale, N. Y.*	Φ K Σ House
Felt, Lester Albert, Dh.	*Bryant Pond*	Farm Boarding House
Fiedler, Raymond Edward, Eh.	*Bangor*	35 Grove Street
Fillebrown, Charles Augustus, Dt.	*Waterford*	A Γ P House
Fish, Lincoln, Py.	*Concord, Mass.*	412 H. H. Hall
Fitch, Karl Albert, Ph.	*Orono*	32 College Road
Fitz, Glendon Chapin, Ed.	*Orono*	2 Elm Street
Flynn, James Hammond, Ms.	*Machiasport*	Λ X A House
Fogg, Carleton Thayer, Ch.Eng.	*Yarmouth*	Φ K Σ House
Ford, Mary Ella, Eh.	*Brooklin*	Balentine Hall
Ford, William George, Pa.	*South Hadley Falls, Mass.*	Φ Γ Δ House

Forde, Madison Shepherd, Eh.	*Kingston, N. Y.*	7 Forest Avenue
Forrestall, Howard Warren, Es.	*Portland*	Φ K Σ House
Fortier, Francis Brett, Fy.	*Dexter*	Star Route, College Road
Fowler, George Turner, Ag.	*Fort Fairfield*	Φ H K House
Fox, Basil Sterling, Fm.	*Washburn*	302 Oak Hall
Frost, John Eldridge, Hy.	*York Village*	38 Oak Street
Frost, Mary Eldridge, He.	*York Village*	20 Forest Avenue
Füger, Albert Stanley Tennant, Jr., Hy.	*Cape Elizabeth*	Φ Γ Δ House
Fuller, Robert Lendall, Es.	*Portland*	Φ K Σ House
Gagnon, Maxine Frances, Ed.	*Eagle Lake*	Colvin Hall
Gerry, Richard Woodman, Ph.	*Lewiston*	Φ M Δ House
Getchell, Amasa Stanley, Ch.	*Bangor*	267 Forest Avenue, Bangor
Gilbert, Hamlin Miller, Hy.	*Hartford, Conn.*	Σ A E House
Ginsberg, Sewall Jerome, Gt.	*Old Town*	144 Main Street, Old Town
Gleason, Wallace Fred, Jr., Ms.	*South Portland*	Λ X A House
Glover, William Albert, Jr., Ce.	*Rockland*	Θ X House
Goodwin, Howard Mayo, Ge.	*Brewer*	Λ X A House
Gowell, John Robert, Me.	*South Portland*	Φ K Σ House
Grant, Douglas Creighton, Fy.	*Medford, Mass.*	Σ N House
Gray, Earle Edwin, An.	*Anson*	A Γ P House
Gregory, Philip Lawrence, Ce.	*North Weymouth, Mass.*	Σ A E House
Grodinsky, Harold Morris, Ms.	*Bangor*	187 Ohio Street, Bangor
Gross, Lorraine Webb, Eh.	*Auburn*	South Hall
Gruginskis, Elizabeth Martha, He.	*Rumford*	South Hall
Guiou, Iris Louise, He.	*Presque Isle*	Colvin Hall
Haggett, John Daniel, Ch.Eng.	*North Edgecomb*	Δ T Δ House
Hall, Virginia Smith, Eh.	*Topsham*	South Hall
Ham, Alton Sinclair, Ce.	*Bangor*	R.F.D. #3, Bangor
Hamilton, Bernice Mae, Dr.	*North Uxbridge, Mass.*	Colvin Hall
Hamlin, Joseph Hamor, Eh.	*Bar Harbor*	B Θ Π House
Hanscom, Carolyn Perkins, Py.	*Ogunquit*	Colvin Hall
Harding, Helen Gertrude, Ed.	*Stockton Springs*	South Hall
Harding, Theodore Parker, Zo.	*Boston, Mass.*	A T Ω House
Hardison, Waldo Flanders, Fm.	*Caribou*	212 H. H. Hall
Harrington, John Evans, Py.	*Dorchester, Mass.*	Φ Γ Δ House

Hart, Gerald Farrington, Ee.	*Brewer*	R. 5, Brewer
Hart, Ida Mae, Rl.	*Milbridge*	3 Park Street
Harvey, Robert Willis, Me.	*New Haven, Conn.*	Δ T Δ House
Hatch, Marion Estelle, Eh.	*Melrose, Mass.*	Colvin Hall
Hatt, Raymond Harold, Me.	*Patten*	2 Elm Street
Havener, Charles Edward, Ee.	*Rockland*	Σ X House
Hayes, Richard Edmund, Ce.	*Lewiston*	B Θ Π House
Healy, Richard Wyman, Ms.	*Augusta*	Λ X A House
Hennings, Nancy, Ms.	*Portland*	North Hall
Hersey, Alvin Kingsbury, An.	*North Waterford*	Σ A E House
Higgins, Orin Jackson, Es.	*Mapleton*	47 Mill Street
Hight, Diana Elizabeth, Py.	*Skowhegan*	South Hall
Hill, George Dourian, Pa.	*Oakland*	Σ A E House
Hilton, Miriam Ada, He.	*Mercer*	Balentine Hall
Hinkley, Margaret Emerson, Eh.	*Brewer*	Balentine Hall
Hodges, Arthur Webster, Jr., Zo.	*Newton Centre, Mass.*	Λ X A House
Hodgkins, Ellen Bailey, Es.	*Bath*	South Hall
Holman, Blanche Bertha, Eh.	*Norwood, Mass.*	Balentine Hall
Holt, Erastus Eugene, Ee.	*Portland*	18 Oak Street
Hooper, John Francis, Ch.	*Old Town*	154 North Brunswick Street, Old Town
Horblit, David Mordecai, Es.	*Brookline, Mass.*	12 Park Street
Hunter, James Harold, Me.	*West Roxbury, Mass.*	Θ X House
Huntoon, Charles Rounds, Jr., Pa.	*Rumford*	Δ T Δ House
Hurwitz, Sidney Nathaniel, Ms.	*Roxbury, Mass.*	402 H. H. Hall
Hussey, Robert Sylvanus, Es.	*Bangor*	312 H. H. Hall
Hussey, William Penn, Ch.Eng.	*Old Town*	290 South Main Street, Old Town
Ingalls, Gerard William, Ed.	*Bar Harbor*	1 Middle Street
Inglee, Lewis, Jr., Ph.	*Amityville, L. I., N. Y.*	395 College Road
Ireland, Richard Maxwell, Ee.	*Biddeford*	Φ K Σ House
Jackson, Ruth Maida, Rl.	*Bridgewater, Mass.*	17 Spencer Street
Jones, Francis Clough, Fm.	*Orono*	164 College Road
Judkins, Fred Sanborn, Dh.	*Upton*	25 Grove Street
Kelley, Donald Palmer, Ee.	*South Portland*	Φ K Σ House
Kenneson, Harvey Carl, Ee.	*Portland*	Σ N House

Kent, Jean Stafford, Es.	*Bangor*	16 Sixth Street, Bangor
Kimball, Bartlett, Ee.	*Wollaston, Mass.*	Β Θ Π House
Laing, Edmond Taylor, Zo.	*Bangor*	69 Harthorn Ave., Bangor
Landon, Miriam, Py.	*Bangor*	Colvin Hall
Lane, Moses Harold, Gm.	*Mattapan, Mass.*	Τ Ε Φ House
Lannon, Frances Fern, Zo.	*Roslindale, Mass.*	North Hall
Laputz, Alexander Harry, Fy.	*New Haven, Conn.*	Θ Χ House
Larrabee, Edward Whittum, Me.	*Belfast*	Φ Γ Δ House
Leavitt, Earl Edward, Fm.	*Wytopitlock*	59 Park Street
Lees, Harry Thomas, Es.	*Manchester, Mass.*	Κ Σ House
Leighton, Mary Elizabeth, Hy.	*Alfred*	Balentine Hall
Lerner, Alice Mary, Es.	*Melrose, Mass.*	31 Forest Avenue
Levitan, Leon Bernard, Es.	*Brookline, Mass.*	Τ Ε Φ House
Lewis, Helen Baker, Eh.	*Bar Harbor*	Balentine Hall
Lewis, Joseph Henry, Ee.	*Springfield*	406 H. H. Hall
Lieberman, Leo, Eh.	*Bangor*	49 Parkview Avenue, Bangor
Lippa, Elmer Nathan, Es.	*Peabody, Mass.*	Τ Ε Φ House
Littlefield, Betty Holmes, He.	*Portland*	South Hall
Littlefield, Sarah Wells, He.	*Brewer*	Colvin Hall
Long, Carolyn Martha, Eh.	*Bangor*	213 Elm Street, Bangor
Lord, Dwight Elmer, Ee.	*Camden*	Φ Κ Σ House
Lord, Moses Stuart, Ch.Eng.	*Old Town*	238 Main Street, Old Town
Lowe, Charles Herman, Fy.	*Camden*	Φ Κ Σ House
Lowe, Henry Francis, Fm.	*Brooks*	88 Park Street
Lowell, Henry True, Jr., Ee.	*Auburn*	Λ Χ Α House
Lowell, Margaret Wilson, Ed.	*Machias*	Colvin Hall
Lueders, Norma Caecelia, He.	*Marblehead, Mass.*	Balentine Hall
Lull, Sumner Hale, Ee.	*Augusta*	Σ Χ House
Lundy, Hazel Elizabeth, Ch.A.	*Saco*	Balentine Hall
Lynch, Thomas Elwin, Ee.	*South Portland*	Θ Χ House
Lynds, Marjorie Clara, Es.	*Meredith, N. H.*	Colvin Hall
McDonough, Martin Joseph, Jr., Eh.	*Bangor*	96 Otis Street, Bangor
McDonough, William Thomas, Ce.	*Portland*	Θ Χ House
McGinley, Raymond Powell, Pa.	*Danvers, Mass.*	Φ Γ Δ House
McGraves, Donald Esty, Ed.	*Brunswick*	60 Park Street
McKeen, Harold Havener, Es.	*Bangor*	257 Center Street, Bangor
McKenzie, Charles Kennedy, Eh.	*Augusta*	Β Θ Π House

Manning, William Jerome, Zo.	*Thomaston*	58 Main Street
Markle, Prentiss Brown, Es.	*Old Town*	17 North Fourth Street, Old Town
Marr, James Archibald, Fm.	*Millinocket*	Φ H K House
May, Madeleine Elizabeth, Ed.	*Brooklyn, N. Y.*	Colvin Hall
Mayhew, Mabel Eleanor, Zo.	*Old Town*	42 Stillwater Avenue, Old Town
Mayo, Donald Babson, Fy.	*Cumberland Center*	Φ K Σ House
Meade, Arland Ritchie, Dh.	*Auburn*	Α Γ Ρ House
Merrill, Wilford Jewett, Fy.	*Solon*	38 Pierce Street
Millett, Althea Hope, He.	*Norway*	Home Management House
Mitchell, Anna Jean, Ms.	*Bar Harbor*	South Hall
Mitchell, Elizabeth Helen, He.	*Oakland*	Colvin Hall
Morse, Henry Irwin, Dh.	*Kittery*	Α Γ Ρ House
Morse, Roger Harry, Fy.	*Northboro, Mass.*	38 Pierce Street
Mosher, Dorothy Conrey, He.	*Bangor*	89 Royal Road, Bangor
Mosher, Glenn Harold, Ag.	*North Jay*	90 Forest Avenue
Moulton, Arthur Charles, Me.	*West Newfield*	Σ Ν House
Murray, William Lawrence, Tech.	*Orono*	212 Main Street
Nason, Natalie Eva, Ed.	*Hermon*	South Hall
Neal, Oliver Meader, Bt.	*North Berwick*	Σ Α Ε House
Ness, Norman Renfrew, Fm.	*Auburn*	Φ Μ Δ House
Newcomb, Hugh Ross, Wc.	*Newton Centre, Mass.*	Λ Χ Α House
Newell, Charlotte Naomi, He.	*Bangor*	59 Kenduskeag Avenue, Bangor
Nickerson, Archie William, Ed.	*Belfast*	395 College Road
Nightingale, Lewis Alden, Eh.	*Fort Fairfield*	Σ Ν House
Nightingale, Philip Simeon, Fm.	*Fort Fairfield*	Φ Η Κ House
Norris, Russell Taplin, Wc.	*Newburyport, Mass.*	Α Τ Ω House
Oliver, John Wesley, Ag.	*West Paris*	Farm Boarding House
Osgood, Carl Chapin, Me.	*Ellsworth*	Σ Χ House
Owens, Albert Llewellyn, Fm.	*Portland*	Φ Μ Δ House
Owens, Thomas William, Jr., Fm.	*Portland*	Φ Η Κ House
Page, Leland Vernon, Ce.	*Easton*	Φ Η Κ House
Parker, Robert George, Es.	*Sherman Mills*	Φ Μ Δ House

Pendell, Mary Elizabeth, Py.	*Caribou*	11 Main Street
Penley, Geneva Helen, Hy. & Gt.	*Portland*	South Hall
Peterson, Philip Francis, Zo.	*Caribou*	Θ X House
Philbrook, George Edwin, Ch.	*Tenafly, N. J.*	A T Ω House
Philpott, Lawrence Arad, Ee.	*Patten*	2 Elm Street
Picard, Marguerite Mary, Rl.	*Augusta*	Colvin Hall
Pierce, Edward Wiggin, Fy.	*Portland*	Θ X House
Pippin, Richard Peter, Eh.	*Bar Harbor*	207 H. H. Hall
Plesset, Abraham Eli, Es.	*Fort Kent*	107 Essex Street, Bangor
Plimpton, Robert Hall, Fy.	*Newton Centre, Mass.*	Φ M Δ House
Plourde, Leonard Bradbury, Me.	*Orono*	18 Oak Street
Polito, Armando Arnaldo, Rl.	*Portland*	Θ X House
Prahar, Louis Benjamin, Fy.	*Englewood, N. J.*	A T Ω House
Pratt, Leonard Melvin, Ce.	*Greenville Junction*	A T Ω House
Profita, Josephine Mary, Dr.	*Bangor*	4 Essex Street, Bangor
Rankin, Lucille Anne, He.	*Rockland*	Home Management House
Raye, Mary Helen, Zo.	*Eastport*	Balentine Hall
Raymond, Richard Watt, Pa.	*St. Albans, Vt.*	K Σ House
Reidman, Ernest John, Ch.Eng.	*Auburn*	202 H. H. Hall
Reiley, Helen Prince, Eh.	*Portland*	Balentine Hall
Robbins, Arthur William, Fm.	*Gouldsboro*	25 Grove Street
Rogers, Philip Norris, Fm.	*Mars Hill*	Φ H K House
Rogers, Virginia Moore, He.	*Bar Harbor*	58 Main Street
Rosen, Antoria Shirley, He.	*New Sweden*	Colvin Hall
Ross, John Buchanan, Fy.	*Bridgeport, Conn.*	Λ X A House
Ross, John Hart, Ed.	*Belmont, Mass.*	B Θ Π House
Roundy, George, Fy.	*Walpole, Mass.*	Σ A E House
Rowe, Catharine Lancaster, Zo.	*Bangor*	Balentine Hall
Rowe, Ernest York, Hy.	*Eliot*	36 College Road
Rubin, Morris David, Es.	*Bangor*	55 Elm Street, Bangor
Russell, Charles Stanward, Ch.Eng.	*Stillwater*	Stillwater
Saltzman, William Clarence, Eh.	*Bangor*	303 Broadway, Bangor
Schoppe, Robert Pilsbury, Es.	*Auburn*	402 H. H. Hall
Seavey, Ruthe Shirley, He.	*Cape Porpoise*	187 Essex Street, Bangor
Shannon, Thomas Rae, Jr., Zo.	*Glens Falls, N. Y.*	Λ X A House

Sharon, Cora Edra, Py.	*Wrentham, Mass.*	Balentine Hall
Shaw, Beulah Lilah, He.	*Freeport*	Balentine Hall
Shaw, George Ronald, Ed.	*South Casco*	18 Bennoch Street
Shay, Mary Regina, Eh.	*Newton Highlands, Mass.*	Balentine Hall
Shea, Merrill Arthur, Fy.	*Wilton*	Λ X Λ House
Sherry, Edward Chaplin, Es.	*Portland*	306 Oak Hall
Shesong, Faith Lovejoy, Dr.	*Portland*	Colvin Hall
Shute, Harry David, Ce.	*Augusta*	Β Θ Π House
Siegel, James Howard, Zo.	*Bangor*	22 Hazel Street, Bangor
Silsby, Edward Homer, Fy.	*Bangor*	Κ Σ House
Smart, Walter Elden, Jr., Me.	*Portland*	Φ Γ Δ House
Smith, Arthur Grant, Ch.Eng.	*Oakland*	25 Grove Street
Smith, Donald Arlington, Fy.	*Brewer*	Φ Η Κ House
Smith, Frances Sargent, Cl.	*South Portland*	Balentine Hall
Smith, Francis Wager, Jr., Fy.	*New Haven, Conn.*	18 Oak Street
Smith, Harry Wallace, Ed.	*Bucksport*	7 Kell Street
Smith, Hiram LeRoy, Jr., Ch.Eng.	*Newton Highlands, Mass.*	Α Τ Ω House
Smith, Louis, Zo.	*Portland*	12 Park Street
Spavin, Henry Arnold, Ce.	*West Roxbury, Mass.*	Β Θ Π House
Spence, Fred Albert, Ce.	*Springvale*	Δ Τ Δ House
Stanley, James Sterling, Es.	*Hampden Highlands*	Hampden Highlands
Staples, Walter Sylvester, Ph.	*Kittery*	25 Grove Street
Stern, Herbert, Es.	*Bangor*	416 Hancock Street, Bangor
Stevens, Richard Merle, Zo.	*Bangor*	28 Main Street
Stone, Charles Taylor, Fy.	*Bridgton*	Λ Χ Λ House
Stromberg, Edwin Knight, Ch.	*North Berwick*	Σ Α Ε House
Strout, Vincent Dickey, Ms.	*Orono*	88 Park Street
Sturgis, Frederic Sweeney, Es.	*Portland*	Κ Σ House
Sutton, Mary-Hale, He.	*West Roxbury, Mass.*	Colvin Hall
Swan, Rosa Elizabeth, He.	*Brewer*	Colvin Hall
Swenson, Alfred August, Me.	*Millinocket*	Stillwater
Tapley, Frank Merton, Fm.	*Robinson's*	Φ Η Κ House
Tarbell, Lester Joseph, Ch.Eng.	*Smyrna Mills*	Β Θ Π House
Taylor, Georgia Hawkes, He.	*South Portland*	Colvin Hall
Taylor, Harold Stone, Zo.	*Bangor*	28 Main Street

Thomas, Edith Louise, Es.	*Skowhegan*	South Hall
Thompson, James Douglas, Es.	*South Bristol*	Σ N House
Thompson, Marjorie Evelyn, He.	*Biddeford*	Balentine Hall
Thompson, Marjorie Mason, He.	*Brewer*	10 Brimmer Street, Brewer
Thompson, Norman Herbert, Me.	*Biddeford*	Σ A E House
Thompson, William Raymond, Jr., Zo.	*Caribou*	Θ X House
Timson, George Edwin, Jr., Es.	*Lynn, Mass.*	A T Ω House
Toms, Robert Henry, Me.	*Portland*	Θ X House
Tondreau, Priscilla Anne Marie, Rl.	*Brunswick*	Balentine Hall
Troland, Edwin Parker, Me.	*Malden, Mass.*	Φ K Σ House
Trott, Caleb Merritt, Es.	*Bath*	A T Ω House
Tsoulas, George Louis, Es.	*Bangor*	83 Elm Street, Bangor
Turner, Francis Eugene, Py.	*Bangor*	K Σ House
Vannah, Sherman, Me.	*Waldoboro*	Θ X House
Varney, Richard Harrison, Fm.	*Jonesboro*	College Road
Veague, Arnold Leolin, Es.	*Castine*	Φ K Σ House
Veague, William Everett, Eh.	*Harborside*	Φ K Σ House
Viner, Benjamin Fogg, Es.	*Bangor*	24 Oak Street
Viola, Ralph Thomas, Fy.	*Orono*	Main Street
Voegelin, Adolphine Henrietta, He.	*Boonton, N. J.*	Colvin Hall
Waldron, Richard Shailer, Fy.	*Dexter*	A T Ω House
Walker, Murdoch, Es.	*Millinocket*	A T Ω House
Wanagel, Michael, Me.	*Newburyport, Mass.*	A T Ω House
Ward, William Howard, Ce.	*North Uxbridge, Mass.*	A T Ω House
Ware, Barbara Emily, He.	*South Portland*	Colvin Hall
Watson, Festus George, Ms.	*Portland*	Θ X House
Webber, William Clarence, Jr., Ed.	*Bar Harbor*	1 Middle Street
West, Howard Fletcher, Es.	*Canton*	36 College Road
West, Randolph Hartwell, Ag.	*North Berwick*	22 Pond Street
White, Orville Harold, Eh.	*Ellsworth Falls*	Ellsworth Falls
Whitman, William Parsons, Me.	*Belfast*	Φ Γ Δ House
Whitmore, Rose Frances, Rl.	*Rockland*	Balentine Hall
Willey, James Frederick, Fy.	*St. Johnsbury, Vt.*	Θ X House
Williams, John Perkins, Hy.	*Ogunquit*	Λ X A House
Williams, Richard Eaton, En.	*Framingham Center, Mass.*	A T Ω House

Williston, Margaret Ruth, Eh.	*Bangor*	264 French Street, Bangor
Witherspoon, Donald Francis, Fy.	*North Haven*	80 North Main Street
Wolverton, Frances Charlotte, Ed.	*Bangor*	15 Pierce Street
Woodland, Edwin Conrad, Dt.	*Watertown, Mass.*	K Σ House
Wright, Mary Louise, He.	*Portland*	Balentine Hall
Yeaton, George William, Hy.	*Farmington*	Σ N House
Young, Kenneth Bradford, Ce.	*Sherman Mills*	Φ H K House
Youngs, Annette Helen, He.	*Bangor*	Home Management House
Zoidis, Peter, Es.	*Bangor*	125 Grove Street, Bangor

SOPHOMORES

Abbott, Edmund Livingston, Tech.	*Auburn*	Σ A E House
Adams, Jonathan Edwards, Me.	*Bangor*	235 West Broadway, Bangor
Albert, Paul Aurele, Bc.	*Presque Isle*	45 Mill Street
Allan, Iris Clymenia, Ed.	*South Portland*	15 Pierce Street
Alley, John Chase, Fy.	*Portland*	Φ H K House
Ames, Bertram Wendell, Ph.	*Bangor*	106 Highland Street, Bangor
Anderson, Anna Mirdza, Arts	*Derby*	Kell Street
Anderson, Evangeline Deborah, Arts	*Monson*	South Hall
Archibald, Mary Cordelia, Arts	*Houlton*	Colvin Hall
Armstrong, Elizabeth Rae, He.	*Vanceboro*	10 Main Street
Bailey, Barbara, Arts	*Machias*	Colvin Hall
Bailey, Cora Alice, Arts	*Waterville*	36 Forest Avenue
Baker, Gwendolyn Marie, He.	*Brewer* 29 Brimmer Street, Brewer	
Bannigan, Marguerite Connor, Arts	*Waterville*	Balentine Hall
Barker, Thomas Levi, An.	*Vassalboro*	Φ M Δ House
Bartlett, Anne Quincy, Arts	*Sorrento*	Balentine Hall
Barton, Ruth Estelle, He.	*West Gray*	South Hall
Bearce, Mary Leslie, Arts	*Bucksport*	Balentine Hall
Bell, Eleanor Lucille, He.	*Albany, N. Y.*	Colvin Hall
Bettoney, Wilfred Estey, Me.	*Wollaston, Mass.*	36 College Road
Billings, Herman, Arts	*Portland*	B Θ Π House

Blackwell, Ruel Jotham, Ce.	*Madison*	Φ M Δ House
Blair, Elaine Anne, Arts	*Island Falls*	75 Bennoch Street
Blaisdell, Tedford Madison, Tech.	*Franklin*	Σ X House
Blake, Howard Francis, Me.	*Portland*	88 Park Street
Blanchard, Charles Louis, Ch.	*Bangor*	48 Montgomery Street, Bangor
Bond, Helen Marden, Arts	*Bangor*	South Hall
Bowler, Mary, Arts	*Millinocket*	Balentine Hall
Brackett, Arthur Lindsey, Arts	*Marblehead, Mass.*	Σ A E House
Bradford, Merrill Ray, Arts	*Bangor*	Φ Γ Δ House
Bramhall, Robert Billings, Me.	*Quincy, Mass.*	B Θ Π House
Brann, Leonard Maurice, Bc.	*North Whitefield*	A Γ P House
Brastow, Vera Estelle, He.	*Brewer*	Balentine Hall
Browne, Paul Everett, Fm.	*Bethel*	Φ M Δ House
Bryers, Jerome Jefferson, Fy.	*Rockville Centre, L. I., N. Y.*	Σ X House
Buck, Embert Clason, Ag.	*Harrison*	25 Grove Street
Bucklin, Dunbar Richard, Fy.	*South Warren*	Φ K Σ House
Burke, Virginia, He.	*Hanson, Mass.*	Balentine Hall
Burns, John Wesley, Ph.	*Union*	Kell Street
Buzzell, Mary Edith, He.	*Fryeburg*	South Hall
Byer, Edwin, Arts	*Bangor*	36 Essex Street, Bangor
Cahill, James Best, Fy.	*Ridgefield Park, N. J.*	K Σ House
Cail, Robert Small, Arts	*Portland*	Σ A E House
Calvert, Lawrence Arthur, Me.	*Smiths Falls, Ontario*	84 College Road
Cameron, John Robert, Ce.	*Old Town*	Λ X A House
Campbell, Josephine O'Brien, Arts	*Machias*	Balentine Hall
Cates, Ethel Maxine, He.	*Thorndike*	Balentine Hall
Chamberlain, Austin Hunter, Me.	*Mt. Vernon, N. Y.*	Φ Γ Δ House
Chapman, Gordon Lewis, Fy.	*Portland*	Θ X House
Chase, Eva Isobel, Arts	*Limestone*	Colvin Hall
Chick, Arthur Jesse, Jr., Ht.	*Monmouth*	12 Park Street
Chute, Laura Grace, He.	*Brewer*	Balentine Hall
Ciomei, Lawrence Rizzier, Ch.Eng.	*Stonington*	A T Ω House
Claflin, Dexter Kidder, Fy.	*Boston, Mass.*	Λ X A House
Clark, Carleton Hermon, Ee.	*Springfield, Mass.*	Σ N House
Clark, Eldon Ralph, Fy.	*Dennysville*	Φ M Δ House
Clark, Kenneth Edward, Fm.	*Fort Fairfield*	Φ H K House
Clement, Roger Conant, Dh.	*Monroe*	A Γ P House

Clifford, William Foster, Arts	*Westmount, Quebec*	A T Ω House
Cohen, Edward Eugene, Arts	*Bangor*	311 French Street, Bangor
Collins, Frank Henry, Me.	*Bar Harbor*	39 Pine Street
Cook, Robert Boone, Fy.	*Presque Isle*	A T Ω House
Cooper, Erwin Elling, Arts	*Mattapan, Mass.*	T E Φ House
Cooper, Mary Eliza, Arts	*Albion*	Balentine Hall
Corbett, Barbara, He.	*Orono*	Campus
Corrigan, Philip Aiken, Ch.Eng.	*Calais*	384 College Road
Costrell, Louis Charles, Ee.	*Bangor*	233 Parkview Avenue, Bangor
Cox, Catherine Ella, He.	*Sea Cliff, N. Y.*	Colvin Hall
Crabtree, Kenneth Lester, Me.	*Union*	Star Route, College Road
Craig, Philip Charles, Fm.	*Patten*	A T Ω House
Craig, William Henry, Fy.	*Bingham*	18 Forest Avenue
Cressy, Carlton Clark, Ch.	*Ottawa, Ontario*	52 North Main Street
Crocker, Frederick Leon, Ag.	*Old Town*	18 Bradbury Street, Old Town
Crocker, Richard Foster, Jr., Wc.	*Fort Kent*	A T Ω House
Crockett, Eleanor Mabel, Arts	*Hopedale, Mass.*	Balentine Hall
Crosby, Bradford Lawrence, An.	*Belfast*	25 Grove Street
Croteau, Dearnley, Arts	*Lisbon Falls*	18 Bennoch Street
Crowell, Samuel, III, Me.	*Marblehead, Mass.*	384 College Road
Cullinan, Robert Vincent, Arts	*South Portland*	Φ Γ Δ House
Cunningham, James W., Me.	*Old Town*	36 Veazie Street, Old Town
Curran, Dennis Joseph, Arts	*Bangor*	101 Fern Street, Bangor
Curran, Hazel Bernice, He.	*Milo*	Colvin Hall
Currie, Charlotte Hope, Arts	*Hartland*	South Hall
Currier, Doris Madeline, Ed.	*Oxbow*	South Hall
Curtin, Timothy Francis, Fm.	*Everett, Mass.*	45 Mill Street
Curtis, Elizabeth, He.	*Searsport*	Balentine Hall
Davee, Pauline Weltha, Arts	*Orono*	46 College Road
Davis, Carl Fremont, Me.	*Rumford*	K Σ House
Davis, Dorothy, He.	*Longmeadow, Mass.*	Colvin Hall
Davis, Edward Everett, Ce.	*Burnham*	18 Oak Street
Davis, Marguerite Alma, Arts	*Old Town*	Colvin Hall
Day, Elroy Kenneth, Ce.	*North Berwick*	Σ A E House
Dean, Orris Lee, Jr., Ch.Eng.	*Derby*	2 Myrtle Street

Dean, Philena Emily, He.	*Waterville*	Balentine Hall
Demont, Ralph Lewis, Fy.	*Old Town*	33 Oak Street, Old Town
Dimitre, Charlotte Louise, He.	*Calais*	Balentine Hall
Dixon, Elizabeth Rachel, Arts	*Old Town*	249 Center Street, Old Town
Doak, Carleton, Jr., Ce.	*Belfast*	Φ Γ Δ House
Doble, Elizabeth Jean, Arts	*Beverly, Mass.*	Colvin Hall
Dodge, Harland Laurell, Arts	*Hudson Falls, N. Y.*	Λ X Λ House
Doe, George Edward, Fy.	*Kezar Falls*	7 Forest Avenue
Doe, Robert Wendell, Pa.	*Bingham*	Φ M Δ House
Douglas, John Wesley, Jr., Ph.	*Lisbon*	Λ Γ P House
Drew, Dana Edgecomb, Fm.	*Patten*	H. H. Hall
Drummond, Pauline Louise, He.	*Orono*	Colvin Hall
Dunbar, Marion Phoebe, He.	*Belfast*	Balentine Hall
Duncan, Carleton Lewis, Ag.	*Presque Isle*	45 Mill Street
Dunne, Charles Edmund, Fy.	*Newton, Mass.*	Λ X Λ House
Dyer, Hamilton Higgins, Jr., Me.	*Kennebunk*	Φ Γ Δ House
Dyer, Harold Jacobson, Ee.	*Portland*	Σ Λ E House
Dyson, Albert Orne, Pa.	*Stoneham, Mass.*	Σ X House
Edwards, John Sherwood, Fy.	*Bridgeport, Conn.*	Φ H K House
Ela, Benjamin Walter, Jr., Ch.Eng.	*North Anson*	56 Park Street
Epstein, Lucille Mae, Arts	*Bangor*	298 Essex Street, Bangor
Estabrook, Harold Udell, Arts	*Calais*	Σ X House
Fales, Joan Elinor, Arts	*Waterville*	Balentine Hall
Farrin, Afton Holmes, Ht.	*South Bristol*	18 Bennoch Street
Farris, Ralph Webster, Jr., Arts	*Augusta*	Σ N House
Farris, Robert Calvin, Jr., Ag.	*Union*	Kell Street
Fay, Norman Frederick, Arts	*Needham, Mass.*	K Σ House
Fitch, Bula Louise, He.	*Orono*	32 College Road
Fitch, Harlan Pratt, Fy.	*Stillwater*	Stillwater
Fogg, Lucille Carroll, Arts	*Bangor*	Balentine Hall
Folsom, Phillips Emery, Arts	*Biddeford*	K Σ House
Foss, Jane Barbara, He.	*Freeport*	Balentine Hall
Foster, John Alfred, Arts	*Northeast Harbor*	Σ Λ E House
Friedman, Albert, Arts	*Bangor*	173 Broadway, Bangor
Gale, Eunice Marion, Arts	*Falmouth*	Balentine Hall
Gallison, David Elder, Arts	*Lambert Lake*	Σ X House

Gamage, Russell Wells, Me.	*Christmas Cove*	Δ T Δ House
Gleason, Lawrence John, Ce.	*Bangor*	95 Otis Street, Bangor
Goodrich, Maison Keith, Fm.	*Patten*	Α T Ω House
Goud, Allan Frederick, Arts	*Van Buren*	Θ X House
Gould, Maurice Welford, Fy.	*Kennebunkport*	18 Forest Avenue
Grace, Barbara, He.	*Lynnfield Center, Mass.*	Balentine Hall
Grace, Donald Frye, Arts	*Harrington*	Σ N House
Graffam, Robert Thomas, Ch.Eng.	*Portland*	4 Peters Street
Grange, Jean Isabelle, He.	*Smyrna Mills*	South Hall
Grant, Philip Farnsworth, Fy.	*Cherryfield*	Σ X House
Grant, Theodore Hudson, Ee.	*Houlton*	83 Park Street
Green, Sybil Kent, Arts	*Orono*	184 Main Street
Greene, Josephine Luella, He.	*Belfast*	Colvin Hall
Greenlaw, Joseph Milton, Ce.	*Camden*	Σ A E House
Gregory, Philip Neil, Arts	*Caribou*	Θ X House
Groves, Stephen William, Me.	*East Millinocket*	Φ M Δ House
Grundy, Walton Earle, Bc.	*Portland*	Α Γ P House
Hall, Thomas William, Fm.	*Wiscasset*	Φ M Δ House
Hall, William Henry, Jr., Ce.	*Belfast*	K Σ House
Halliday, Harry Horn, Fy.	*Newtonville, Mass.*	Λ X Α House
Hannigan, Bernard Guy, Fm.	*Houlton*	5 Main Street
Hanson, Helen Jackman, Arts	*Augusta*	South Hall
Harlow, Barbara, Arts	*Turner's Falls, Mass.*	South Hall
Harnden, Frederick Barker, Me.	*Rangeley*	K Σ House
Harriman, John Philip, Ee.	*Cherryfield*	Σ X House
Harris, Louis Tolman, Arts	*Milo*	K Σ House
Harris, Robert Tyler, Arts	*Salem, Mass.*	K Σ House
Harrison, Edna Louise, He.	*Newburgh, N. Y.*	Balentine Hall
Hart, Elmer Colburn, Fy.	*South Hope*	Star Route, College Road
Haskell, Donald Benjamin, Me.	*Portland*	25 Grove Street
Haskell, Priscilla Day, Arts	*Wiscasset*	South Hall
Hayes, Edward Keith, Arts	*Orono*	Φ K Σ House
Heald, Erwin Lovett, Ce.	*Lincolnville*	Δ T Δ House
Hemingway, Robert Edward, Ag.	*Presque Isle*	Φ H K House
Hennessy, Charlotte Rose, He.	*Portland*	South Hall
Henry, Mary Elizabeth, He.	*Thomaston*	Balentine Hall
Higgins, Foster L., Jr., Arts	*Augusta*	Φ K Σ House
Higgins, Ralph M., Arts	*Augusta*	Φ K Σ House

Hill, Charles St. John, Me.	*Orono*	9 Kell Street
Hilton, William Rogers, Ce.	*Bangor*	Φ K Σ House
Hines, Dorothy Mildred, Arts	*Middletown, Conn.*	Balentine Hall
Hodgdon, Kendrick Yale, Bt.	*Anson*	48 Boutelle Road, Bangor
Hodgdon, Malvern Foss, Me.	*Biddeford*	Σ A E House
Holbrook, Charles Marsh, Ce.	*Belmont, Mass.*	395 College Road
Holmes, Henrietta Brainerd, Arts	*Farmington Falls*	Balentine Hall
Homans, Elizabeth West, He.	*Bangor*	Balentine Hall
Hooper, Gwendolyn Marks, He.	*Old Town*	Brunswick Street, Old Town
Hopkins, Richard Carver, Ce.	*Camden*	Δ T Δ House
Howard, Preston Oliver, Ee.	*Rumford*	Φ Γ Δ House
Howard, Richard Homer, Fm.	*Sangerville*	Σ X House
Howard, Sheldon Kenneth, Me.	*North Monmouth*	25 Grove Street
Hoxie, Margaret Leonora, Arts	*Belfast*	Balentine Hall
Huff, Margaret Louise, He.	*Pawtucket, R. I.*	Colvin Hall
Jackson, Robert Woodbury, Arts	*Jefferson*	7 Kell Street
Jellison, Milton Sylvester, Arts	*Bangor*	279 Essex Street, Bangor
Jennings, Malbon Hollis, Ee.	*Haverhill, Mass.*	B Θ Π House
Jones, Barbara, Arts	*Biddeford*	Balentine Hall
Kelley, Eric Winslow, Fm.	*South Portland*	Φ K Σ House
Kimball, Charles Edwin, Jr., Arts	*Dover-Foxcroft*	Σ X House
King, Charlotte Edith, Arts	*Bath*	Balentine Hall
Kinney, William Thomas, Ce.	*Rumford*	Δ T Δ House
Kirkland, Robert, Jr., Ee.	*Quincy, Mass.*	B Θ Π House
Kirkpatrick, Alan Fred, Ch.	*Old Orchard Beach*	26 Peters Street
Kiszonak, Marion Frances, He.	*Lisbon Falls*	40 High Street, Old Town
Knotts, Elizabeth McCoy, Arts	*Portland*	Colvin Hall
Konecki, Leon Walter, Arts	*South Portland*	Σ X House
Kufel, Stacia Victoria, He.	*Shirley, Mass.*	South Hall
Kuney, Clark Glamis, Ee.	*Boston, Mass.*	B Θ Π House
Kyer, Marguerite Edith, Arts	*Brewer*	236 Wilson Street, Brewer
Ladd, Edward Rankin, Arts	*Rockland*	K Σ House
Lamoreau, Jeanette, Arts	*Presque Isle*	South Hall
Lancaster, Alden, Arts	*Presque Isle*	A T Ω House
Lane, Arnold Sterling, Fy.	*Reading, Mass.*	A T Ω House

Leavitt, Charles Ralph, Ce.	*West Enfield*	Φ K Σ House
Leavitt, Lois Priscilla, He.	*Orono*	7 Park Street
Leighton, Berenice Maude, Arts	*Harrington*	Balentine Hall
Leonard, Herbert Arthur, Dh.	*Thorndike*	Φ K Σ House
Libby, Priscilla Victoria, He.	*Saco*	Balentine Hall
Lippke, Arthur John, Jr., Fy.	*Jamaica, N. Y.*	Λ X A House
Lovering, Francis Ward, Arts	*Tyngsboro, Mass.*	Σ A E House
Lunt, Ferne Marguerite, Arts	*Houlton*	Colvin Hall
Lynch, Owen Albert, Arts	*Bangor*	K Σ House
McCarthy, William Edward, Fm.	*Rumford*	K Σ House
MacDonald, Reginald Peppard, Me.	*Lynn, Mass.*	B Θ Π House
McDonnell, Arthur Philip, Arts	*South Portland*	K Σ House
McFarland, Gwendolyn Noreen, Arts	*Oakfield*	South Hall
McKenzie, Melvin Almon, Me.	*Lewiston*	Θ X House
Mallet, Alfred Parker, Fy.	*South Portland*	Φ Γ Δ House
Marston, Merwin Abbott, Wc.	*East Waterford*	Φ M Δ House
Merrill, Leonard Carleton, Arts	*Brewer*	R. D. #6, Brewer
Merrill, Ruth Elizabeth, He.	*Old Town*	395 Center Street, Old Town
Merrill, Wayne Howard, Wc.	*Cumberland Center*	Φ K Σ House
Mersereau, Clayton Davis, Arts	*Somerville, Mass.*	Σ N House
Miller, Anita Elinor, Arts	*Monmouth Beach, N. J.*	Balentine Hall
Miller, Roy Leighton, Fy.	*Quincy, Mass.*	Λ X A House
Millett, Elwood Dimock, Me.	*Norway*	Φ M Δ House
Milliken, Sewall Otis, Fm.	*Portland*	88 Park Street
Milliken, Wendall Seavey, Fm.	*Portland*	88 Park Street
Mitchell, Lillian Mae, Arts	*Orono*	14 Park Street
Monroe, Richard Anderson, Fy.	*Melrose, Mass.*	B Θ Π House
Mooers, Robert Douglas, Arts	*Bangor*	90 Wiley Street, Bangor
Moore, Donald James, Arts	*Bangor*	Σ A E House
Morong, Raymond Lee, Ee.	*Madison*	56 Park Street
Morrell, Harry Elmer, Ch.	*Brunswick*	Δ T Δ House
Moulton, Marjorie Gloria, Arts	*Randolph*	Balentine Hall
Mowatt, George Malcolm, Arts	*Calais*	Θ X House
Moynihan, Julia Ruth, He.	*Madison*	Balentine Hall
Murphy, Gerald Eugene, Pa.	*Portland*	K Σ House
Nason, Beverly Ross, Ch.	*Old Town*	291 South Main Street, Old Town

Nelson, Eunice Josephine, Arts	*Old Town*	Indian Island, Old Town
Nelson, Raymond Lloyd, Fy.	*Concord, Mass.*	17 Peters Street
Norton, Raymond Francis, Arts	*Bangor*	24 Buck Street, Bangor
Norton, Weston Pike, Wc.	*Strong*	25 Grove Street
O'Hear, Hugh Joseph, Ch.Eng.	*Bangor*	51 Boutelle Road, Bangor
Ohnesorge, Louise Maxine, Arts	*Kennebunkport*	Colvin Hall
Oldreive, George Franklin, Arts	*Malden, Mass.*	Β Θ Π House
Orr, Mary Josephine, Arts	*Old Town*	202 North Brunswick Street, Old Town
Orser, Margaret Rowen, Arts	*Fort Fairfield*	Balentine Hall
Pagan, Ruth Alta, Arts	*Claremont, N. H.*	Balentine Hall
Page, William Birney, Ce.	*Sebago Lake*	8 Kell Street
Parkman, Ethelyn Arlene, He.	*Lynn, Mass.*	Colvin Hall
Parkman, Lauress Tibbetts, Me.	*Lynn, Mass.*	Β Θ Π House
Patrinelis, Charles Speros, Arts	*Portland*	Θ Χ House
Patterson, Arthur Willis, Jr., Arts	*Castine*	Σ Α Ε House
Patterson, Frederick Gillis, Arts	*Castine*	Σ Α Ε House
Pendleton, Brian, Arts	*Lewiston*	Φ Μ Δ House
Perrin, Donald Herbert, Fm.	*Sherman Mills*	Φ Η Κ House
Perry, John William, Arts	*Old Town*	474 Stillwater Avenue, Old Town
Phair, Willis Ralph, Fy.	*Limestone*	75 Main Street
Philbrook, Helen Marion, He.	*Shelburne, N. H.*	Balentine Hall
Pierce, Alice, Arts	*Lunenburg, Mass.*	Balentine Hall
Pierce, Margaret Helen, Arts	*Bath*	Balentine Hall
Pinkham, Thomas Sears, Arts	*Fort Kent*	Σ Ν House
Porter, Phyllis Jean, He.	*Houlton*	Balentine Hall
Pratt, Elbert Sewall, Arts	*Livermore Falls*	Θ Χ House
Quigley, Richard, Fy.	*Providence, R. I.*	Β Θ Π House
Ramsdell, Ellis McNevin, Arts	*Rockland*	Σ Χ House
Ranco, Sadie Theresa, He.	*Old Town*	Indian Island, Old Town
Raye, Alexander Hinds, Me.	*Eastport*	80 North Main Street
Raye, John Franklin, Me.	*Eastport*	80 North Main Street

Reid, Elizabeth Hunt, He.	*Augusta*	Balentine Hall
Rice, Margaret Louise, Arts	*Orono*	16 Mill Street
Rich, Franklin Wilson, Dh.	*Charleston*	25 Grove Street
Rich, Robert Davis, Arts	*Portland*	Σ N House
Rideout, Linwood Browne, Fy.	*Bowdoinham*	Φ K Σ House
Robbins, Bernard Clarence, Bc.	*Gardiner*	Φ M Δ House
Roberts, Marian Emerson, He.	*Kennebunk*	Balentine Hall
Rodgers, Newton Jennings, Ch.Eng.	*Portland*	384 College Road
Rubinoff, Maurice Jack, Arts	*Portland*	T E Φ House
Rucker, Maurice Eugene, Wc.	*Hyannis, Mass.*	Σ A E House
Russell, Louis Reid, Wc.	*Fort Fairfield*	A T Ω House
Saex, Irving Gilbert, Arts	*Holyoke, Mass.*	T E Φ House
Sanborn, Jean Cummings, He.	*Bangor*	Balentine Hall
Sanborn, Jeannette Winter, Arts	*Bangor*	Balentine Hall
Sanborn, Ralph Durell, Me.	*Palmer, Mass.*	384 College Road
Sawyer, George Roberts, Ce.	*Old Town*	23 Bradbury Street, Old Town
Sawyer, Neil Gould, Arts	*Easton*	B Θ Π House
Sheedy, Maxine Frances, He.	*East Millinocket*	Balentine Hall
Sheraton, Robert Leonard, Me.	*West Newton, Mass.*	25 Grove Street
Silver, Dorothy, Arts	*Bangor*	R.F.D. #7, Bangor
Sirois, William Joseph, Ag.	*Fort Fairfield*	K Σ House
Skinner, DeWitt, Fy.	*Newtonville, Mass.*	Λ X A House
Smith, Clement Harold, Dh.	*Monmouth*	A Γ P House
Smith, Mark Sheldon, Ee.	*Bangor*	16 Bower Street, Bangor
Smith, Richard Gary, Fm.	*Caribou*	Φ H K House
Smith, Richard Marvard, Dt.	*Orono*	382 College Road
Smith, Wendell Walker, Ag.	*Westfield*	23 Park Street
Smith, Winfield Clinton, Ee.	*Richmond, Va.*	Σ N House
Speirs, Ernest Lincoln, Arts	*Westbrook*	Λ X A House
Spencer, Arlo Norman, Fy.	*Bradley*	Bradley
Sprowl, Leander Mayford, Dh.	*Searsmont*	17 Margin Street
Stacy, Dora Louise, Arts	*Shirley*	Balentine Hall
Stacy, Madge Elizabeth, Arts	*Shirley*	Balentine Hall
Stanley, Edward Carpenter, Arts	*Rockville Centre, N. Y.*	Φ Γ Δ House
Staples, Stanley Wordsworth, Arts	*Bangor*	160 Essex Street, Bangor
Stearns, Lura Mae, He.	*South Paris*	Campus
Stetson, Frederic Hastings, Ee.	*Bangor*	24 Grove Street, Bangor

Stevens, Blair, Arts	*Bangor*	451 Union Street, Bangor
Stevens, Deborah Florence, He.	*Turner*	20 Forest Avenue
Stewart, Harriette Dalrymple, Arts	*Waterville*	Balentine Hall
Stinchfield, Roger Maxim, Bc.	*Wayne*	Λ X Λ House
Stockholm, Harold Yager, Fy.	*Poughkeepsie, N. Y.*	Φ K Σ House
Stoddard, James Merrill, Fy.	*Eastport*	80 North Main Street
St. Pierre, Janet Whiting, He.	*Bangor*	8 Hudson Street, Bangor
Strout, Donald Francis, Fy.	*Jay*	88 Park Street
Sylvester, Elizabeth, Ed.	*Saco*	Colvin Hall
Szaniawski, Edward William, Fy.	*Scarsdale, N. Y.*	Λ T Ω House
Taylor, Marjorie, Arts	*Bangor*	Balentine Hall
Temple, George Leonard, Arts	*Lewiston*	Σ Λ E House
Temple, Philip Roswell, Arts	*Hopedale, Mass.*	Σ Λ E House
Thomas, George Merrill, Ce.	*Rumford*	Φ Γ Δ House
Thomas, Herrick Melvin, Arts	*Vineland, N. J.*	Σ X House
Thomas, Richard Earl, Fy.	*Rockland*	K Σ House
Thompson, Marie Frances, He.	*Caribou*	Balentine Hall
Thurston, Frederick Clark, Arts	*Bangor*	59 Kenduskeag Avenue, Bangor
Tibbetts, Earle Wilbur, Ce.	*Hallowell*	Δ T Δ House
Titcomb, Stanley Thayer, Ch.	*New Gloucester*	Φ K Σ House
Tolman, Marthon Gregory, Arts	*Portland*	Σ X House
Toner, Albert Plummer, Arts	*Lewiston*	Σ Λ E House
Toothaker, Carl Russell, Me.	*Gardiner*	Δ T Δ House
Trafford, David White, Arts	*Portland*	64 Division Street, Bangor
Turner, Harland Glidden, Arts	*Augusta*	B Θ Π House
Tyrrell, Edward Irving, Arts	*Orono*	43 Pine Street
Vail, Dorothea Agnes, Arts	*Cornwall-on-Hudson, N. Y.*	South Hall
Verrill, Thomas Davis, Me.	*Westbrook*	Λ X Λ House
Walton, Mildred Hayes, Arts	*Lisbon*	Balentine Hall
Ward, Sheldon Leroy, Dh.	*Thorndike*	56 North Main Street
Washburn, Frank Johnson, Dh.	*Dover-Foxcroft*	88 Park Street
Weatherbee, Artemus Edwin, Arts	*Bangor*	16 North Park Street, Bangor
Webber, Helen Virginia, Arts	*Houlton*	Colvin Hall
Wenger, Karl Frederick, Fy.	*Springfield, Mass.*	17 Margin Street

West, Paige Lamb, Arts	*Portland*	Σ A E House
Wheeler, Samuel Edward, An.	*Farmington*	
		59 Brunswick Street, Old Town
Whiteley, Albert Harry, Fy.	*Limerick*	18 Forest Avenue
Whitney, John Franklin, Ch.Eng.	*Presque Isle*	90 Park Street
Whittredge, Barbara Fern, Arts	*Brewer*	Balentine Hall
Willey, Baxter Leone, Ch.Eng.	*Cherryfield*	48 Pine Street
Williams, Thomas Arthur, Ee.	*Springfield, Mass.*	Σ X House
Wing, Merle Wesley, En.	*Presque Isle*	90 Park Street
Winslow, Paul Howard, Ee.	*Millinocket*	Σ N House
Wood, Amy Sheppard, He.	*Old Town*	
		19 North Brunswick Street, Old Town
Yozukevich, Algird George, Me.	*Auburn*	A T Ω House

UPPERCLASS STUDENTS CONDITIONED FOR ADMISSION

Bonville, Jeannette Louise, Arts	('39)	*Presque Isle*	South Hall
Feero, Robert Clyde, Ch.	('39)	*Bath*	A T Ω House
Maguire, Mary Virginia, Arts	('39)	*Portland*	Balentine Hall
Nunan, Richard Tribler, Arts	('39)	*Monhegan Island*	87 Park Street
Reed, Earle Duncan, Me.	('39)	*Augusta*	Φ K Σ House
Terry, Philip Baxter, Jr., Arts	('39)	*Scituate, Mass.*	A T Ω House
Wentworth, Owen, Arts	('39)	*Kennebunkport*	B Θ Π House

FRESHMEN

Adams, Edna Pearl, Arts	*South Brewer*	
		412 South Main Street, South Brewer
Adams, Norris Stanwood, Arts	*Cape Elizabeth*	407 H. H. Hall
Adkins, Harlow Dailey, Me.	*Norway*	404 H. H. Hall
Akeley, Richard Warren, Agr.	*Presque Isle*	
		Poultry Experiment Plant
Alpert, Myer, Arts	*Bangor*	137 State Street, Bangor
Anderson, John Frederick, Fy.	*Brooklin*	25 Grove Street
Andrews, Robert Golden, Arts	*Adams, Mass.*	103 H. H. Hall
Andrews, Roger Stover, Ee.	*Augusta*	203 Oak Hall

Arthur, Garfield Manning, Ee.	*Fitchburg, Mass.*	104 H. H. Hall
Ashby, James Hanlon, Agr.	*Caribou*	108 Oak Hall
Atwood, Robert Dixon, Arts	*Portland*	202 Oak Hall
Babcock, Philip Borden, Arts	*Castine*	205 H. H. Hall
Bacon, Earl Grant, Eng.	*Oakland*	25 Grove Street
Bahrt, Albert Edgar, Ee.	*St. Johnsbury, Vt.*	395 College Road
Barrell, William Dwight, Agr.	*Turner*	104 H. H. Hall
Barstow, Virginia Lucille, He.	*South Brewer*	52 Chamberlain Street, Brewer
Bean, Perry Ashley, Jr., Eng.	*Bangor*	384 College Road
Bearce, Neil Robert, Fy.	*Foxboro, Mass.*	101 H. H. Hall
Beardsell, Wallace Ames, Eng.	*Boston, Mass.*	102 H. H. Hall
Beck, William Alfred, Ch.Eng.	*Bangor*	311 H. H. Hall
Beckerman, Frank Maurice, Arts	*Brookline, Mass.*	207 Oak Hall
Belknap, Russell Eliott, Me.	*Norfolk, Mass.*	102 H. H. Hall
Bell, John Bemis, Arts	*Bangor*	104 Otis Street, Bangor
Berce, Woodbury Lee, Agr.	*Washburn*	412 H. H. Hall
Bernstein, Myron Lawrence, Arts	*Swampscott, Mass.*	304 H. H. Hall
Bessey, Earle Dutton, Jr., Fy.	*Brooks*	406 H. H. Hall
Bickford, Priscilla Hope, Arts	*Portland*	The Maples
Bigelson, Rose, Arts	*Bangor*	142 York Street, Bangor
Blake, Gordon Robert, Me.	*Brownfield*	Star Route, College Road
Blake, Janet Emily, He.	*LaGrange*	36 College Road
Blom, Carl Johansen, Agr.	*Portland*	38 Grove Street
Boardman, Paul Allen, Arts	*Islesboro*	18 Bennoch Street
Bohnson, Richard Joseph, Arts	*Portland*	201 Oak Hall
Bolan, John Everett, Arts	*Winterport*	103 H. H. Hall
Bond, Henry Raymond, Eng.	*Jefferson*	104 Oak Hall
Bonney, Bradford, Agr.	*Portland*	88 Park Street
Bonney, Robert Harlan, Eng.	*Portland*	103 H. H. Hall
Bouchard, Albert James, Agr.	*Caribou*	101 H. H. Hall
Bouchard, Kenneth Joseph, Agr.	*Caribou*	412 H. H. Hall
Bower, William Sumner, Ge.	*Auburn*	103 H. H. Hall
Brann, Edward Kenneth, Fy.	*Plainfield, N. J.*	408 Oak Hall
Brann, William Henry, Ee.	*Gardiner*	7 Kell Street
Breton, Leon Joseph, Ce.	*Rumford*	56 North Main Street
Bridges, Alton George, Agr.	*Mars Hill*	17 Margin Street

Bridgham, Henry Bates, Agr.	*Buckfield*	College Road
Brody, Harold, Arts	*Roxbury, Mass.*	304 H. H. Hall
Bronsdon, Harold Clark, Fy.	*Newton Centre, Mass.*	401 H. H. Hall
Brudno, Lincoln, Arts	*Cleveland Heights, Ohio*	104 Oak Hall
Buck, Mary Ellen, He.	*Monticello*	North Hall
Buck, William Lewis, Ee.	*Valley Stream, N. Y.*	395 College Road
Buckley, Gordon Ames, Fy.	*Endicott, N. Y.*	104 H. H. Hall
Bucklin, Fred Robert, Fy.	*South Warren*	13 Peters Street
Buell, Terence Kermit, Agr.	*Bangor*	R. #2, Bangor
Bullard, Edward Chesseldon, Ch.Eng.	*Glens Falls, N. Y.*	407 Oak Hall
Burke, Gerard James, Fy.	*Concord, Mass.*	104 H. H. Hall
Burleigh, Robert Wentworth, Ch.	*Boothbay Harbor*	384 College Road
Burney, Lawrence Edward, Fy.	*South Portland*	47 Mill Street
Burr, Kenneth George, Fy.	*Kennebunk*	303 Oak Hall
Buss, Frank Joseph, Fy.	*Central Falls, R. I.*	47 Mill Street
Butler, Lyle Alton, Jr., Ch.Eng.	*Gardiner*	24 Oak Street
Byram, Harry Melcher, Jr., Ee.	*Freeport*	104 H. H. Hall
Carlisle, John Davis, Arts	*Bangor*	15 Montgomery Street, Bangor
Carlson, Earl David, Arts	*West Newton, Mass.*	402 H. H. Hall
Carlson, Frederick Lincoln, Agr.	*Cambridge, Mass.*	Stillwater
Carter, Elton Stewart, Arts	*Mapleton*	395 College Road
Carter, Gordon Palmer, Eng.	*Brewer*	12 Brimmer Street, Brewer
Chamberlain, Everett Bacon, Fy.	*Belgrade Lakes*	403 H. H. Hall
Chandler, Theodore Pinkham, Ch.Eng.	*South Paris*	25 Grove Street
Chandler, William Heywood, Eng.	*Portland*	208 H. H. Hall
Charpentier, Allyn Eugene, Eng.	*Brooklyn, N. Y.*	201 H. H. Hall
Cheney, Margaret Laurie, Arts	*Monmouth*	North Hall
Chester, Roger Elsbree, Ge.	*Babylon, N. Y.*	201 H. H. Hall
Church, Diana Brooke, Arts	*Westport, Conn.*	The Maples
Citrin, Murray Maurice, Arts	*Portland*	12 Pleasant Street
Clark, Burton Parker, Me.	*Perry*	17 Hamlin Street
Clark, Sumner Starrett, Arts	*Saco*	312 H. H. Hall
Clement, James Donald, Jr., Arts	*Bangor*	77 Essex Street, Bangor

Clough, Charles Henry, Jr., Me.	*West Roxbury, Mass.*	201 H. H. Hall
Coffee, Marjorie Eleanor, He.	*Clayville, N. Y.*	The Maples
Coffin, Robert Tristram, Arts	*Brunswick*	203 H. H. Hall
Cogswell, Fred Melville, Jr., Arts	*Danvers, Mass.*	205 H. H. Hall
Cohen, Bernard, Me.	*Biddeford*	304 H. H. Hall
Colbath, Burton Monroe, Agr.	*Westfield*	108 Oak Hall
Condon, James Stevens, Me.	*South Brooksville*	36 College Road
Cook, Edward Jay, Jr., Agr.	*Rutland, Vt.*	203 H. H. Hall
Cook, William Sherwood, Me.	*Tenants Harbor*	302 H. H. Hall
Cooper, Mary France, He.	*Beverly Farms, Mass.*	The Maples
Copeland, William Henning, Eng.	*Montreal, Quebec*	52 North Main Street
Corliss, Mary Elizabeth, He.	*Bridgton*	The Maples
Cotting, Roger, Arts	*Newton, Mass.*	403 H. H. Hall
Covell, Priscilla Ann, Arts	*Monmouth*	North Hall
Craig, Robert Elmer, Agr.	*Westfield*	25 Grove Street
Cumerford, William Richard, Arts	*East Greenwich, R. I.*	Β Θ Π House
Cunningham, Leslie Alec, Agr.	*Patten*	2 Elm Street
Curran, Mary Cecilia, He.	*Lewiston*	North Hall
Currier, Stuart Lavers, Fy.	*Sandwich, Mass.*	203 H. H. Hall
Curtis, Philip Edward, Agr.	*Caribou*	107 Oak Hall
Cuzner, Wilbur Leonard, Arts	*Belfast*	56 Park Street
Dalrymple, Stewart Willard, Me.	*Newton Centre, Mass.*	405 H. H. Hall
Damery, Ruth Catherine, Arts	*Camden*	The Maples
Danforth, Hazen Willis, Jr., Fy.	*Brewer*	302 Oak Hall
Darveau, George Francis, Eng.	*Orono*	14 Hamlin Street
Day, Dorothy, Arts	*Orono*	203 Main Street
Deering, Marjorie Bowman, He.	*Orono*	160 College Road
Deixel, Royal Jacob, Arts	*Portland*	15 Park Street
DeLano, Norman Thayer, Fy.	*Bridgton*	202 H. H. Hall
Dennis, Clarence Elmer, Ce.	*Rumford*	205 Oak Hall
Dente, Anthony Carmine, Fy.	*Mt. Vernon, N. Y.*	110 H. H. Hall
Dequine, John Frederick, Fy.	*Long Branch, N. J.*	201 H. H. Hall
Derry, John Harry, Ch.Eng.	*Rumford*	56 North Main Street
Desjardins, Ruth Ursula, He.	*Old Town*	122 South Brunswick Street, Old Town
Digby, George Tabor, Fy.	*Collingswood, N. J.*	395 College Road

Dimick, William Carl, Fy.	*New Haven, Conn.*	7 Forest Avenue
Dimmer, John Patrick, Ce.	*Portland*	211 H. H. Hall
Doak, Camilla, He.	*City Point*	The Maples
Donovan, Alice Ann, Arts	*Houlton*	North Hall
Dore, Guy Frederick, Fy.	*Monson*	204 H. H. Hall
Doten, Nathaniel Miles, Jr., Arts	*Newton Highlands, Mass.*	204 H. H. Hall
Dow, Dorrice Helen, He.	*Bangor*	273 Pine Street, Bangor
Duby, Carleton Paul, Fy.	*Bradley*	Bradley
Duplisse, Kathleen Esther, He.	*Milford*	Main Street, Milford
DuVally, James Francis, Arts	*Medford, Mass.*	7 Kell Street
Dyer, Jane, Arts	*Framingham, Mass.*	The Maples
Dyer, Richard Charles, Agr.	*Portland*	204 H. H. Hall
Dyke, Ronald Arno, Eng.	*Livermore Falls*	204 H. H. Hall
Ebbeson, Helma Katrina, Arts	*Bangor*	North Hall
Ellis, Cutler Lynnwood, Agr.	*Rangeley*	101 H. H. Hall
Ellis, Ernest, Arts	*Orono*	29 Park Street
Emery, Mark Peter, Jr., Ch.Eng.	*Bangor*	143 Webster Avenue, Bangor
Enman, Edgar Ellis, Eng.	*Bangor*	64 West Broadway, Bangor
Erickson, Miriam Ornokki, Arts	*North Cushing*	The Maples
Eveleth, Lawrence Nathaniel, Agr.	*Auburn*	Stillwater
Everett, Gordon Daniel, Agr.	*Washburn*	309 H. H. Hall
Farrar, Herbert Wendell, Ee.	*Hingham Center, Mass.*	301 H. H. Hall
Farrell, Cecil Leonard, Eng.	*Bangor*	117 Birch Street, Bangor
Farrin, Margaret Amelia, Arts	*South Bristol*	31A Mill Street
Fessenden, Ruth Natalie, Arts	*Portland*	North Hall
Fielder, Thomas Gray, Arts	*Orono*	37 Pine Street
Files, Maynard Whitney, Fy.	*Brookline, Mass.*	77 Mill Street
Finks, Marcia Jannette, He.	*Portland*	The Maples
Finnigan, James Irving, Agr.	*Bangor*	71 James Street, Bangor
Fisher, Richard Wixon, Fy.	*Providence, R. I.*	301 H. H. Hall
FitzGerald, Marion Hannah, Arts	*Newburgh, N. Y.*	Balentine Hall
FitzPatrick, James Joseph, Jr., Arts	*Marblehead, Mass.*	302 H. H. Hall
Flanagan, Eileen Mary, He.	*Bangor*	207 Maple Street, Bangor
Fletcher, Ruth Blackwell, Arts	*Anson*	The Maples

Foster, Earl Barrett, Fy.	*Fairfield*	Stillwater
Frederickson, Laurence Adolph, Arts	*Gloucester, Mass.*	403 Oak Hall
Freeman, Josephine Anne, Arts	*Portland*	North Hall
Funaro, Arthur Joseph, Arts	*Bridgeport, Conn.*	303 H. H. Hall
Gardner, Howard Delbert, Agr.	*East Millinocket*	311 H. H. Hall
Gartley, Myron Stewart, Agr.	*Presque Isle*	80 North Main Street
Gavett, Andrew Willard, Me.	*Dennysville*	404 Oak Hall
Genevicz, Ludwig William, Fy.	*Wellesley, Mass.*	Stillwater
Gerrish, Harold Aldrich, Arts	*Lisbon Falls*	303 H. H. Hall
Gerry, Franklin Wheeler, Eng.	*Lewiston*	303 H. H. Hall
Gilpatrick, Arlo Eugene, Eng.	*Mars Hill*	303 H. H. Hall
Glasser, Joseph Herman, Arts	*Roxbury, Mass.*	304 H. H. Hall
Gogan, Patricia Kathryn, Arts	*Bangor*	R.F.D. #7, Bangor
Golden, Francis Patrick, Fy.	*Bangor*	54 Charles Street, Bangor
Golden, Miriam Natalie, Arts	*Bangor*	326 State Street, Bangor
Goldsmith, Richard, Arts	*Salem, Mass.*	302 H. H. Hall
Goode, Marjorie Gwendolyn, Arts	*Bangor*	228 Palm Street, Bangor
Goodman, Ruth, He.	*Portland*	The Maples
Goodrich, William George, Fy.	*Morrisville, Vt.*	395 College Road
Goodwin, Mildred Ethel, Arts	*Eliot*	North Hall
Goodwin, Ralph Bennett, Me.	*Alfred*	302 H. H. Hall
Gotlieb, Peter, Arts	*Bangor*	121 Grove Street, Bangor
Gould, Philip Harriman, Agr.	*Bucksport*	25 Grove Street
Grant, Lyndon Joyce, Agr.	*Sedgwick*	305 Oak Hall
Grant, Ralph Tozier, Agr.	*Presque Isle*	45 Mill Street
Grant, Raymon Wills, Jr., Arts	*Lewiston*	34 Pine Street
Gray, Douglas Elliot, Fy.	*Warren*	102 Oak Hall
Gray, Gooden, Me.	*South Brooksville*	36 College Road
Gray, Preston, Eng.	*Brookline, Mass.*	411 H. H. Hall
Gray, Ruth Elizabeth, Arts	*Orono*	15 Mill Street
Green, Edgar Allan, Arts	*Brookline, Mass.*	207 Oak Hall
Griffin, Thomas Frederick, Arts	*Newton Centre, Mass.*	395 College Road
Grimmer, Stewart William, Arts	*Portland*	310 H. H. Hall
Grindle, Mary Arline, Arts	*Bucksport*	181 Stillwater Avenue, Old Town
Gross, Stephen Keith, Eng.	*Camden*	395 College Road
Hall, Albert Ernest, Jr., Fy.	*Crosswicks, N. J.*	395 College Road
Hall, Marguarite Lucile, He.	*Orono*	24 Crosby Street

Halliwell, John Scovill, Bt.	*Watertown, Conn.*	203 H. H. Hall
Hallowell, Richard Walter, Jr., Agr.	*Caribou*	110 H. H. Hall
Hamilton, William Douglas, Fy.	*White Plains, N. Y.*	301 Oak Hall
Hanley, Walter Edward, Agr.	*Orono*	48 Mill Street
Hannan, Hazen Bedford, Ch.Eng.	*Liberty*	25 Grove Street
Hardison, Virginia Keese, Arts	*Fillmore, Calif.*	The Maples
Harlow, Laurence Joseph, Ch.Eng.	*Barre Plains, Mass.*	208 Oak Hall
Harrington, Gwendolyn Mary, He.	*Bangor*	64 Cedar Street, Bangor
Harrington, Joseph Leonard, Agr.	*Patten*	2 Elm Street
Harris, John Norman, Ce.	*Anson*	403 H. H. Hall
Hart, Annie Arlene, He.	*South Hope*	North Hall
Hatch, William Henry, Fy.	*Dark Harbor*	25 Grove Street
Hathaway, Henry Lloyd, Arts	*Winterport*	124 Main Street
Hawes, Emil Franklin, Me.	*Bangor*	32 Royal Road, Bangor
Hebel, Richard Edwin, Eng.	*Brewer*	178 Parker Street, Brewer
Hennessy, Louis Daniel, Ch.	*Brewer*	18 High Street, Brewer
Herrick, Lillian Roberta, Arts	*Lisbon Falls*	North Hall
Hess, Phyllis Eleanor, Arts	*Hartford, Conn.*	The Maples
Heughan, Herbert Milton, Arts	*Bangor*	395 College Road
Higgins, George Loring, Fy.	*Bangor*	706 Broadway, Bangor
Higgins, Harold Donham, Eng.	*Lewiston*	303 H. H. Hall
Higgins, Raymond Dyer, Arts	*Dennysville*	404 Oak Hall
Hinckley, Catherine May, Arts	*Hampden*	The Maples
Hincks, Ramona Derr, Arts	*Portland*	North Hall
Holland, Stanley Robert, Me.	*Portland*	208 H. H. Hall
Holmes, Jane, Arts	*Farmington Falls*	The Maples
Holt, Fred Edward, Fy.	*Oxford*	25 Grove Street
Hooper, Natalie Elizabeth, Arts	*Rockport, Mass.*	The Maples
Humphries, Angus Edward, Fy.	*Perry*	408 H. H. Hall
Hunt, Orman Pearl, Agr.	*Clinton*	25 Grove Street
Hutchins, Leland Clair, Jr., Arts	*Bridgton*	403 H. H. Hall
Hutchinson, Philip Allan, Me.	*West Buxton*	402 H. H. Hall
Jackman, Hope Adelaide, Arts	*Orono*	College Road
Jackman, Mary Sylvia, He.	*Mount Vernon*	North Hall
Jackson, Floyd Frederic, Arts	*Rumford*	401 Oak Hall
Jellison, Pauline Winfred, Arts	*Bangor*	341 French Street, Bangor
Jenckes, George Raymond, Fy.	*Cranston, R. I.*	306 H. H. Hall
Johnson, Fred George, Arts	*Dennysville*	404 H. H. Hall
Johnson, Joseph Myron, Agr.	*Harrison*	25 Grove Street
Johnson, Marjorie Lois, Arts	*Millinocket*	The Maples
Johnson, Paul Leslie, Agr.	*Brooks*	88 Park Street

Johnson, Stanley Fairfield, Fy.	*Brunswick*	395 College Road
Johnston, Frederick John, Arts	*Bangor*	35 Boutelle Road, Bangor
Johnston, Raymond Randall, Arts	*Fort Fairfield*	209 H. H. Hall
Jones, Franklyn Lewis, Fy.	*Portland*	404 H. H. Hall
Jones, Mary Elizabeth, He.	*Mexico*	The Maples
Jordan, John Haskell, Fy.	*Fryeburg*	404 H. H. Hall
Kane, Thomas Franklin, Jr., Arts	*Portland*	110 H. H. Hall
Keenan, William Patrick, Ch.Eng.	*Cape Elizabeth*	409 H. H. Hall
Kelley, Joseph Brian, Me.	*Brooks*	19 Clinton Street, Bangor
Kempton, Robert William, Arts	*Pemaquid*	395 College Road
Keneborus, George Anthony, Agr.	*Lewiston*	308 Oak Hall
Kennedy, Mary Charlotte, He.	*Monmouth*	North Hall
Kenney, Howard Marshall, Ee.	*Millinocket*	105 Oak Hall
Kent, Rachel Woodman, He.	*Bangor*	16 Sixth Street, Bangor
Keogh, Harry Winslow, Jr., Ce.	*Norwalk, Conn.*	406 Oak Hall
Keyes, Allston Prentice, Ch.Eng.	*Washington, D. C.*	101 Oak Hall
Kimball, Vernon Lord, Eng.	*Sangerville*	205 Oak Hall
King, Walter Bernard, Eng.	*Old Town*	Highland Avenue, Old Town
Knight, Mervin Taber, Eng.	*Newton Centre, Mass.*	405 H. H. Hall
Knowlton, Charles Wentworth, Arts	*Carmel*	306 H. H. Hall
Knowlton, Robert Canfield, Arts	*Westbrook*	201 Oak Hall
Kruse, Elizabeth Marie, He.	*Bangor*	The Maples
LaBarge, Bernard Aloysius, Me.	*Bucksport*	412 H. H. Hall
Ladd, Chester Morris, Fy.	*Waterville*	25 Grove Street
Laffin, Catherine Scribner, He.	*Ellsworth*	182 Pine Street, Bangor
Lancaster, Helen Grace, He.	*Old Town*	154 Stillwater Avenue, Old Town
LaPointe, Geraldine Suzanne, He.	*Orono*	29 Forest Avenue
Larson, Robert Alan, Pa.	*Norwalk, Conn.*	310 H. H. Hall
Lawrence, Estelle Merrill, He.	*Gray*	The Maples
Lawry, Edward Heath, Fy.	*Fairfield*	7 Kell Street
Leafe, Russell Paul, Eng.	*Worcester, Mass.*	102 H. H. Hall
Leonard, Robert Coffin, Arts	*Cape Elizabeth*	202 H. H. Hall
Lewis, John, Jr., Eng.	*Skowhegan*	109 H. H. Hall
Libbey, Elizabeth, He.	*Milford, Mass.*	The Maples

Lindell, Wiljo Maurice, Eng.	*Warren*	15 Peters Street
Lindsay, Andrew Gowen, En.	*North Monmouth*	Park Street
Linscott, Stanley Paul, Fy.	*Cornish*	206 Oak Hall
Littlefield, John Thomas, Me.	*Brewer*	304 Oak Hall
Littlefield, Joseph Rackliff, Eng.	*Portland*	34 Pine Street
Litz, James Franklin, Arts	*Limestone*	38 Grove Street
Locke, Boynton, Jr., Ch.Eng.	*Boothbay Harbor*	395 College Road
Longfellow, Jacob Winslow, Arts	*Machias*	23 Spencer Street
Lord, Edwin Moor, Arts	*Skowhegan*	203 Oak Hall
Loring, Malcolm Stevens, Fy.	*Portland*	401 H. H. Hall
Love, Dorothy Lee, Arts	*Yonkers, N. Y.*	North Hall
Loveitt, Herbert Francis, Eng.	*South Portland*	15 Park Street
Lucas, Robert Francis, Eng.	*York Village*	109 H. H. Hall
Lundberg, Robert Nelson, Arts	*Gloucester, Mass.*	103 Oak Hall
Lyford, Lawrence Linwood, Ce.	*Elberon, N. J.*	207 H. H. Hall
McCain, James Stanley, Arts	*Houlton*	395 College Road
McClelland, Ruth Winifred, He.	*Hamden, Conn.*	The Maples
MacDonald, Philip Leith, Ch.Eng.	*Pittsfield*	15 Park Street
MacDonald, Robert William, Eng.	*York Village*	395 College Road
McDowell, Conrad Wayman, Arts	*Portland*	17 Margin Street
McEachern, Carl Alexander, Ce.	*Greenville Junction*	66 Park Street
MacGregor, Walter Newell, Ee.	*Eastport*	36 College Road
McLaughlin, Eugene Lawerence, Agr.	*Limestone*	204 Oak Hall
McMahon, Owen John Herbert, Me.	*Orono*	18 Bennoch Street
McNeill, Warren Rupert, Fy.	*Bath*	201 Oak Hall
McPhee, Lawrence Louis, Ch.Eng.	*Old Town*	42 Union Street, Old Town
McPherson, Dalmar Serner, Arts	*Stillwater*	Stillwater
McPheters, Leonard Lamont, Me.	*Bangor*	15 Savage Street, Bangor
McPheters, Linwood Snider, Me.	*Bangor*	15 Savage Street, Bangor
Maasen, John Henry, Jr., Fy.	*Scarsdale, N. Y.*	109 H. H. Hall
Mackay, Hugh Paterson, Fy.	*Winter Harbor*	307 H. H. Hall
Maclay, Mark Walton, Fy.	*New York, N. Y.*	101 H. H. Hall
Madigan, Mary Anna, He.	*Houlton*	North Hall
Maines, John Thornton, Fy.	*Hartford, Conn.*	305 H. H. Hall
Maisel, Sophie, He.	*Belfast*	Balentine Hall
Maling, Helen Louisa, Arts	*Kennebunkport*	North Hall
Marks, Phyllis Ruth, Arts	*Brookline, Mass.*	104 Main Street

Marsh, John Ambrose, Fy.	*Bridgeport, Conn.*	109 H. H. Hall
Marshall, Donald McCutcheon, Eng.	*Bath*	111 H. H. Hall
Marsolais, Hubert Hector, Fy.	*Cohoes, N. Y.*	395 College Road
Marston, Arthur Adair, Fy.	*Newburyport, Mass.*	111 H. H. Hall
Martenhoff, James Edward, Arts	*East Rockaway, L. I., N. Y.*	111 H. H. Hall
Martin, Burleigh, Jr., Arts	*Augusta*	12 Park Street
Martin, Frank Samuel, Eng.	*Bath*	405 Oak Hall
Martin, Roger Lamont, Fy.	*East Hiram*	24 Oak Street
Maxwell, Margaret, Arts	*Bangor*	41 Howard Street, Bangor
Merrill, Edward Harris, Fy.	*Arlington, Mass.*	111 H. H. Hall
Merrill, Fred Patterson, Ce.	*Bangor*	254 Elm Street, Bangor
Merrill, Robert Stanton, Fy.	*Gray*	206 H. H. Hall
Merritt, Lawrence McFarland, Arts	*Manchester, N. H.*	395 College Road
Mitchell, Edwin Matthew, Ee.	*Old Town*	Indian Island, Old Town
Mitchell, Nahum Wentworth, Jr., Ch.Eng.	*West Newfield*	395 College Road
Mooney, Thomas Patrick, Eng.	*Bangor*	358 Hancock Street, Bangor
Moore, Donald Horatio, Fy.	*Beverly, Mass.*	209 H. H. Hall
Moore, Eugene Lincoln, Fy.	*Houlton*	209 H. H. Hall
Morgrage, Franklin Cavis, Me.	*Bangor*	243 Union Street, Bangor
Morin, Paul Eugene, Fy.	*Cranston, R. I.*	306 H. H. Hall
Morton, Richard Gwynne, Eng.	*Farmington*	307 Oak Hall
Moynihan, Cornelius Francis, Bc.	*Madison*	406 Oak Hall
Mulholland, Elizabeth Catherine, Arts	*Lubec*	The Maples
Murphy, Muriel Margaret, He.	*Fort Fairfield*	Balentine Hall
Murphy, Robert Elwood, Arts	*Oakfield*	209 H. H. Hall
Nelson, Harley Cummings, Ch.Eng.	*Reading, Mass.*	210 H. H. Hall
Nelson, Harry Servatus, Jr., Eng.	*North Vassalboro*	395 College Road
Nickerson, Thomas Henry, Eng.	*Harrington*	80 Mill Street
O'Brien, Oric Osman, Fy.	*Brooks*	210 H. H. Hall
Odlin, Clifford Woodbridge, Eng.	*Cape Elizabeth*	306 Oak Hall
Orr, Emma Frances, He.	*Old Town*	118 Middle Street, Old Town

Palmer, Raymond Jordan, Arts	*West Roxbury, Mass.*	210 H. H. Hall
Pangburn, Alvah Edward, Agr.	*Caribou*	210 H. H. Hall
Parent, Douglas Joseph, Arts	*Bangor*	72 Cottage Street, Bangor
Patterson, Paul Kieth, Fy.	*Willimantic*	395 College Road
Paul, James Stuart, Eng.	*Fort Fairfield*	305 H. H. Hall
Paulin, Lucille Bernice, He.	*Bangor*	442 Essex Street, Bangor
Peabody, Herbert Stanley, Agr.	*Houlton*	211 H. H. Hall
Pease, Virginia Frances, Arts	*Wiscasset*	The Maples
Peaslee, Margaret Hall, He.	*Concord, N. H.*	The Maples
Peirce, Charles Albert, Jr., Arts	*Bangor*	205 Elm Street, Bangor
Penniman, Edwin Fossett, Arts	*New Harbor*	66 Park Street
Perry, Orin Francis, 3rd, Ch.Eng.	*Dobbs Ferry, N. Y.*	211 H. H. Hall
Peterson, George Burnham, Arts	*Caribou*	202 H. H. Hall
Phair, Dorothy Elizabeth, He.	*Limestone*	The Maples
Phelps, Mary Pond, Arts	*Foxboro, Mass.*	The Maples
Philbrick, Burton Stiles, Arts	*Salem, Mass.*	18 Bennoch Street
Philbrook, Clement Earle, Arts	*Littleton, N. H.*	7 Kell Street
Pierce, Earle Sidney, Agr.	*Old Town*	34 Sixth Street, Old Town
Pierson, Alvalene May, Arts	*Tenants Harbor*	North Hall
Piorkowski, Henry Paul, Ch.Eng.	*Union City, Conn.*	308 H. H. Hall
Piper, Richard Simmons, Ch.Eng.	*Brewer*	230 Center Street, Brewer
Pipes, Ralph Lawrence, Arts	*New Limerick*	395 College Road
Pletts, Harold Vincent, Me.	*Brunswick*	395 College Road
Plummer, John Flagg, Ce.	*Bangor*	32 Coombs Street, Bangor
Potter, Kenneth Hiram, Agr.	*Gardiner*	211 H. H. Hall
Potter, Walter Edwin, Agr.	*Sabattus*	208 Oak Hall
Powell, Stephen Edwin, Fy.	*Orono*	75 Forest Avenue
Powers, Edgar Fayette, Jr., Ch.Eng.	*East Milton, Mass.*	395 College Road
Powers, Harry Adams, Jr., Ee.	*Wakefield, Mass.*	26 Peters Street
Pratt, Clarence LeRoy, Arts	*Bangor*	R.F.D. #2, Bangor
Pratt, John Harold, Fy.	*Oxford*	202 Oak Hall
Pray, Lucie Adelaide, Arts	*Melrose, Mass.*	The Maples
Prince, Vinton McIntire, Ce.	*Kittery*	52 Park Street
Rader, William August, Fy.	*Westfield, N. J.*	411 H. H. Hall
Rand, John Albert, Agr.	*North Anson*	212 H. H. Hall

Randlett, Evelyn May, Arts	*Dark Harbor*	Balentine Hall
Rawlinson, Frederic Weigand, Ch.	*Portland*	212 H. H. Hall
Ray, Conrad Alan, Ch.Eng.	*Canton*	401 Oak Hall
Raymond, Roy Claude, Me.	*Limestone*	204 Oak Hall
Reed, Carolyn Pennell, He.	*Portland*	The Maples
Reed, Cecil Edward, Ee.	*Southwest Harbor*	212 H. H. Hall
Reed, John Preston, Agr.	*South Brewer*	R.F.D. 8, South Brewer
Reynolds, Arthur William, Fy.	*Northeast Harbor*	309 H. H. Hall
Reynolds, Ralph Milton, Eng.	*Hartford, Conn.*	5 Forest Avenue
Rich, Edwin Stanton, Ee.	*Charleston*	25 Grove Street
Rich, Nathan Harold, Eng.	*Charleston*	309 H. H. Hall
Richard, Octave Francis, Eng.	*Bangor*	170 Garland Street, Bangor
Richardson, Arthur William, Me.	*Poland*	310 H. H. Hall
Robbins, Lorna, Arts	*Lincoln*	505 College Road
Roberts, Malcolm Woodbury, Agr.	*Alfred*	309 H. H. Hall
Robertson, Eleanor Maxine, He.	*Portland*	North Hall
Robertson, Frank Cole, Arts	*Leominster, Mass.*	407 H. H. Hall
Robertson, Robert Brewer, Arts	*Presque Isle*	5 Main Street
Robichaud, Oliver Valmore, Agr.	*Greenville Junction*	46 Jefferson Street, Bangor
Robie, Frederick Wilbur, Eng.	*Auburn*	310 H. H. Hall
Robie, Harriet, He.	*Gorham*	The Maples
Robinson, Edward Melvin, Arts	*Calais*	403 Oak Hall
Roche, Paul Joseph, Arts	*Eastport*	80 North Main Street
Ross, Edward Ernest, Fy.	*Orono*	356 College Road
Ruben, Howard, Arts	*Belfast*	395 College Road
Rubin, Herbert, Arts	*Newburgh, N. Y.*	301 H. H. Hall
Rubinoff, Dorothy Helene, He.	*Portland*	The Maples
Runion, Leona May, Arts	*Spencer, Iowa*	15 Pond Street
Russell, Eugene Osborne, Ch.Eng.	*Yarmouth*	101 Oak Hall
Russell, Marianne Louise, Arts	*Phillips*	The Maples
Salkind, Albert, Arts	*Brooklyn, N. Y.*	103 Oak Hall
Saltzman, Ada Edythe, He.	*Bangor*	303 Broadway, Bangor
Samuelson, Robert Wentworth, Arts	*Lexington, Mass.*	402 H. H. Hall
Sanders, James Osborne, Ch.Eng.	*Greenville*	407 Oak Hall
Savage, Elnora Louise, Arts	*Bangor*	127 Maple Street, Bangor
Sawyer, Margaret Claire, He.	*Gray*	The Maples
Sawyer, Richard Miles, Eng.	*Portland*	308 Oak Hall

Schmidt, George Gerald, Agr.	*Forest Hills, N. Y.*	202 Oak Hall
Scribner, Mary, Arts	*Topsham*	The Maples
Severy, Floyd Moulton, Arts	*Marblehead, Mass.*	43 Main Street
Sheedy, John Richmond, Pa.	*Groton, Mass.*	311 H. H. Hall
Sherman, Robert Chesman, Agr.	*Boothbay*	402 Oak Hall
Shipman, Wayne Fonda, Jr., Agr.	*Worcester, Mass.*	395 College Road
Shiro, Dorothy Elizabeth, Arts	*Bar Harbor*	The Maples
Shiro, James Cople, Arts	*Old Town*	30 South Fourth Street, Old Town
Simpson, Anna Margaretha, He.	*South Gray*	North Hall
Smith, Basil Lougee, Arts	*Winterport*	304 Oak Hall
Smith, Blake Harmon, Agr.	*Exeter*	110 H. H. Hall
Smith, Deane Edgar, Agr.	*Mars Hill*	12 Park Street
Smith, Donald Calvin, Agr.	*Easton*	307 H. H. Hall
Southard, Pemberton, Arts	*Augusta*	410 H. H. Hall
Spencer, Carl Edward, Ch.Eng.	*Anson*	48 Boutelle Road, Bangor
Spofford, Gerald Ellsworth, Fy.	*Kennebunk*	303 Oak Hall
Spruce, Irene Burr, He.	*Old Town*	173 Center Street, Old Town
Stanley, Edward Waldron, Me.	*Farmington*	311 H. H. Hall
Staples, Josiah Harry, Fy.	*Brunswick*	411 H. H. Hall
Stearns, Arthur Earl, Jr., Ch.	*Augusta*	12 Kell Street
Steeves, Jerome Irving, Fy.	*Lincoln*	312 H. H. Hall
Steinmetz, Margaret Olive, He.	*Orono*	38 North Main Street
Stephenson, Mary Woodbury, He.	*Belfast*	15 Pierce Street
Stewart, Robert Frank, Ch.Eng.	*Winthrop*	395 College Road
Stone, Theodore Mordecai, Arts	*Dorchester, Mass.*	408 Oak Hall
Striar, Louis, Arts	*Bangor*	14 Adams Street, Bangor
Stuart, Parker Osborne, Eng.	*Bridgton*	401 H. H. Hall
Sullivan, Elizabeth Frances, He.	*Bangor*	31 Spruce Street, Bangor
Susee, Ronald Eugene, Eng.	*Vanceboro*	312 H. H. Hall
Susi, Guy, Ch.Eng.	*Burnham*	395 College Road
Swartz, Maynard Erwin, Arts	*Roxbury, Mass.*	395 College Road
Sweet, Sherley Marcus, Ee.	*Hulls Cove*	77 Mill Street
Sylvester, Norma Leone, Arts	*Deer Isle*	The Maples
Tardoni, Daniel James, Ch.Eng.	*Sayre, Pa.*	409 H. H. Hall
Thomas, Frances Priscilla, Arts	*Houlton*	The Maples
Thomas, Kenneth Llewellyn, Arts	*Portland*	8 Juniper Street
Thompson, Harold Everett, Jr., Ee.	*Leominster, Mass.*	408 Oak Hall

Thompson, Mary Catherine, He.	*Orono*	31A Mill Street
Thompson, Merrill Gene, Me.	*Southport*	395 College Road
Tondreau, Gertrude Ruth, Arts	*Brunswick*	The Maples
Trask, Doreen Mildred, He.	*Farmington*	The Maples
Trask, Roger Boardman, Fy.	*Bangor*	234 Pine Street, Bangor
Treat, William Wardwell, Arts	*Winterport*	206 H. H. Hall
Tremaine, Richard Leighton, Eng.	*Augusta*	312 H. H. Hall
Trickey, Ruth Elizabeth, Arts	*Pittsfield*	The Maples
Tufts, Marion Rhoda, He.	*South Berwick*	North Hall
Turner, Frederick Wayne, Agr.	*Stetson*	25 Grove Street
Tuttle, Virginia Margaret, Arts	*East Corinth*	North Hall
Upham, Mary Adelaide, Arts	*Biddeford*	105 Main Street
Valk, William Eliadore, Agr.	*Garden City, N. Y.*	409 H. H. Hall
VanNostrand, Elaine Elizabeth, Arts	*Somerville, N. J.*	74 North Main Street
Verrill, Harland Robert, Arts	*Winterport*	Campus
Violette, William Andrew, Eng.	*Balboa, Canal Zone*	409 H. H. Hall
Wark, Donald Thomas, Arts	*Portland*	305 Oak Hall
Warner, Helen Althea, He.	*Bangor*	192 Fourteenth Street, Bangor
Warren, Julia Winifred, Arts	*Lubec*	The Maples
Watson, James Bennett, Arts	*Bangor*	104 Poplar Street, Bangor
Weaver, Charles Lancaster, Eng.	*Presque Isle*	107 Oak Hall
Weeks, Carl Gottfred, Ee.	*Dresden Mills*	395 College Road
West, William Francis, Jr., Arts	*Bangor*	85 Montgomery Street, Bangor
Wheeler, Harold Randolph, Jr., Ch.Eng.	*Fulton, N. Y.*	410 H. H. Hall
Whicher, Ralph Francis, Agr.	*Springvale*	411 H. H. Hall
White, Marion Louise, Arts	*Bangor*	359 Hammond Street, Bangor
Whitman, Edith Irene, He.	*Stonington*	North Hall
Whitney, Clifton Eugene, Agr.	*Winn*	25 Grove Street
Whitney, Louis Alden, Me.	*Brewer*	179 Wilson Street, Brewer
Whitney, Norman Eveleth, Agr.	*West Newton, Mass.*	401 H. H. Hall
Wight, Willard Alanson, Agr.	*North Newry*	18 Bennoch Street
Williams, Rees Coffin, Ch.Eng.	*Westwood, Mass.*	410 H. H. Hall

Willins, Linwood Gerald, Ch.	*Bucksport*	25 Grove Street
Wilson, Charles, Ch.Eng.	*Eastport*	408 H. H. Hall
Wilson, Gleason Woodrow, Fy.	*Jonesboro*	College Road
Wood, Robert Curtin, Fy.	*Portland*	17 Hamlin Street
Woodward, Joyce Clara, Arts	*Auburn*	North Hall
Worcester, Ruth Mabel, He.	*Newtonville, Mass.*	The Maples
Wright, Samuel Judd, Agr.	*Clinton*	25 Grove Street
Wright, William Prentiss, Arts	*Falmouth Foreside*	307 Oak Hall
Young, Constance, He.	*Norway*	The Maples
Young, Priscilla May, Arts	*Foxboro, Mass.*	The Maples

SPECIAL STUDENTS

Caouette, Daniel Joseph, Arts	*Skowhegan*	134 College Road
Cartier, Arthur Theodore, Arts	*Fall River, Mass.*	301 H. H. Hall
Coggeshall, Kay, Arts	*Orono*	40 Forest Avenue
Cyr, Edward Peter, Ag.	*Lille*	12 Park Street
Daley, Donald Edward, Arts	*Bangor*	22 Catell Street, Bangor
Davies, William Ellis, Arts	*Orono*	8 Juniper Street
DeWitt, Frank William, Arts	*Sherman Mills*	25 Grove Street
Dole, Francis Henry, Ch.	*Bangor*	R. #2, Bangor
Gilbert, Calvin Robinson, Arts	*Oakland*	54 Hill Street
Halliwill, Eugene Herbert, Eng.	*Portland*	395 College Road
Hanson, Viggo Hall, Arts	*Westport, Conn.*	56 Park Street
Hitchner, Barbara Dunn, Ed.	*Orono*	51 Bennoch Street
Lawson, Nelson Herbert, Ee.	*Brewer*	39 Washington Street, Brewer
Leavitt, Ruth Madeline, Arts	*Old Town*	57 Oak Street, Old Town
Mayhew, William Robert, Arts	*Bangor*	136 Elm Street, Bangor
Mosher, Howard Cornell, Ch.	*Stillwater*	Spring Street, Stillwater
Patterson, Crosby Gardner, Arts	*Bangor*	72 Center Street, Bangor
Plaisted, Leigh Charles, An.	*Orono*	Farm Boarding House
Rubin, Max, Tech.	*Bangor*	55 Elm Street
Sawyer, Clayton Leonard, Ch.A.	*Orono*	Park Street
Schrumpf, Mildred Brown, Arts	*Orono*	6 University Place
Tewksbury, Edwin Fellows, Es.	*Orrington*	Orrington
Tobey, Elmer Robert, Zo.	*Orono*	5 Pond Street
Trembly, Matthew Bernard, Arts	*Old Town*	45 Elm Street, Old Town

TWO-YEAR COURSE IN AGRICULTURE

First Year

Andrews, Willard Harding	*Auburn*	60 Hill Street
Bell, George Louis	*Bangor*	395 College Road
Brooks, William King	*Melrose Highlands, Mass.*	22 Pond Street
Brown, Wallace Graham	*Bangor*	211 West Broadway, Bangor
Bubar, Treston Owen	*Monticello*	60 Hill Street
Bugbee, Shirley Milton	*Dexter*	15 Mill Street
Bull, Floyd Leland	*Presque Isle*	Φ H K House
Calvo, Raymond John	*New York, N. Y.*	51 North Main Street
Choate, Donald Turner	*Weeks Mills*	A Γ P House
Clark, Carl Orison	*Freedom*	25 Grove Street
Cornish, Alfred Cumston	*Brunswick*	Δ T Δ House
Davis, Otis Marshall	*Caribou*	Σ N House
Dolloff, Alton Livingston	*Rumford Center*	32 Forest Avenue
Gates, Stanley Richard	*West Paris*	15 Mill Street
Goode, Raymond Merlin	*Bangor*	228 Palm Street, Bangor
Grant, James Parker	*Bangor*	59 Sixteenth Street, Bangor
Guiggey, Gerald Graves	*Mars Hill*	17 Margin Street
Hartwell, Henry Lloyd	*Stetson*	25 Grove Street
Howard, Clayton Wendall	*North Monmouth*	25 Grove Street
Huff, Almon Homer	*South Portland*	A Γ P House
Jacobs, John Philip	*Caribou*	Σ N House
Jewett, George Herbert, Jr.	*Bucksport*	25 Grove Street
Jordan, Howard Elwyn	*New Rochelle, N. Y.*	M.C.A. Building
King, Charles Henry	*Brewer*	43 Main Street
McLaughlin, Burleigh Osborn	*Monticello*	60 Hill Street
Morneault, Adrian Lucian	*Lille*	90 Park Street
Pearson, Robert Hill	*Kennebunkport*	18 Forest Avenue
Reny, Leonard James	*Waterville*	25 Grove Street
Schoppee, Fred Holway, Jr.	*Machias*	Stillwater
Scott, Edward Conant	*Presque Isle*	80 North Main Street
Sherman, Alonzo Ginn	*Auburn*	A Γ P House

Smith, Frank Arthur	*Presque Isle*	206 Oak Hall
Smith, Frank Miller	*Lincolnville*	25 Grove Street
Stewart, Roger Almon	*Bangor*	36 Third Street, Bangor
Torrey, Gale Stickney	*Auburn*	Α Γ Ρ House
Watkins, William Bell, Jr.	*Berryville, Va.*	Σ Ν House
Wilson, Adam Winslow	*Portland*	410 H. H. Hall

Second Year

Bowden, Donald Emery	*Orland*	Park Street
Hanaburgh, Walter Balentine	*Buchanan, N. Y.*	Σ Α Ε House
McCready, John Philip	*Presque Isle*	43 Main Street
Sprowl, Walter Wilson	*Appleton*	17 Margin Street
Wilcox, Alton Doble	*Caribou*	Φ Η Κ House

SHORT COURSES IN AGRICULTURE

Anderson, John Arthur, Unit No. 1 and No. 2	*Derby*	Kell Street
Annas, George Levi, Unit No. 1	*Bangor*	224 Essex Street, Bangor
Aylward, Linwood Edwin, Unit No. 1 and No. 2	*Rockland*	Kell Street
Blair, Cedric Peter, Unit No. 1	*Dover-Foxcroft*	60 Forest Avenue
Burns, Harry Millay, Unit No. 1	*Union*	Kell Street
Christensen, Earl Wendell, Unit No. 1	*Fort Fairfield*	60 Forest Avenue
Coffey, Glendon Everett, Unit No. 1	*Presque Isle*	Hill Street
Dahlin, Russell John, Unit No. 1	*Caribou*	Peters Street
Duran, Eugene Pollard, Unit No. 2	*Bangor*	94 Congress Street, Bangor
Erskine, Roger, Unit No. 1	*Presque Isle*	Hill Street
Ford, Horace Winfield, Unit No. 1	*Mars Hill*	56 Park Street
Hillman, Adah Louise, Unit No. 1	*Bangor*	784 Broadway, Bangor
Holmquist, Roy Waldo, Unit No. 2	*Stockholm*	183½ Center Street, Bangor
Kenny, Milton Eugene, Unit No. 1 and No. 2	*Bangor*	629 Main Street, Bangor
McTigue, Francis Hamilton, Unit No. 1	*Bangor*	5 New York Street, Bangor
Merrill, Dwight Dearborn, Unit No. 1	*Dover-Foxcroft*	4 Peters Street

Miller, Marion Flint, Unit No. 1 and No. 2	*Thomaston*	17 Island Avenue
Shannon, Ralph Joseph, Unit No. 1 and No. 2	*Bangor*	Essex Street, Bangor
Twombly, Arno Wayne, Unit No. 2	*Howland*	Howland
Williams, Benjamin Titcomb, Unit No. 1	*Farmington*	6 University Place
Woodbury, Edward Wellington, Unit No. 1	*Bangor*	629 Main Street, Bangor

SPRING SEMESTER, 1937

New Registrations

Graduate Students

Sawyer, Ralph Albert, B.S., Ce. Norwich, 1925	*Orono*	19 Oak Street

Seniors

Churchill, Thomas William, Eh.	*Kezar Falls*	201 Cedar Street, Bangor
Wood, Margaret Crosskill, Ed.	*Presque Isle*	Colvin Hall

Juniors

Gillis, Hugh Allan, Ed.	*Lincoln*	Bangor Theological Seminary
Loveless, Robert Morrell, Me.	*Melrose, Mass.*	Φ K Σ House
McLaughlin, Ruth Helen, Ed.	*Washburn*	15 Pierce Street

Sophomores

Dean, Buel David, Pa.	*Pittsfield, Mass.*	Φ Γ Δ House
Holmes, Richard, Fy.	*Northeast Harbor*	B Θ Π House
Whittier, Rufus Greenleaf, Arts	*East Machias*	Θ X House

Freshmen

Springer, Russell Francis, Me.	*East Walpole, Mass.*	Σ N House
Thibodeau, Gauthier Abel, Fy.	*Auburn*	23 Park Street

Specials

Foster, Dorothy Morse, Ed.	*Canton*	11 Main Street
McGinley, Mabel Powell, He.	*Orono*	North Hall
Moore, Millard George, By.	*Old Town*	182 Stillwater Avenue, Old Town
Olander, Paul Herbert William, Es.	*Ellsworth*	Ellsworth
Winn, Ralph Harold, Arts	*Hopedale, Mass.*	Bangor Theological Seminary

Two-Year Course in Agriculture

First Year

Griffin, James Goodwin	*Lisbon Falls*	35 Grove Street

SUMMER SESSION, 1936

Students Registered for Graduate Credit

Additon, Loring Ralph, B.S., Ed. Bates, 1926	*Ellsworth*
Allen, Irene, B.S. in Ed., Hy. Boston University, 1930	*Somerville, Mass.*
Alley, Eva Lucille, A.B., Ed. Colby, 1929	*Calais*
Atwater, Donald Vince, B.S., Ed. Maine, 1916	*Fort Fairfield*
Babb, Frances Harriet, B.A., Eh. Maine, 1930	*Thomaston*
Belknap, Ruth Victoria, B.S. in Ed., Ed. Boston University, 1925	*Bangor*
Blake, Waneta Taylor, A.B., Ed. Colby, 1924	*Fort Kent*
Bolan, Ella Crowell, B.A., Ed. Maine, 1930	*Winterport*
Brockway, Philip Judd, B.A., Eh. Maine, 1931	*Orono*

Burk, Frank Valentine, B.A., Ed. Maine, 1924	*Randolph*
Burns, Mary Louise, A.B., Fr. Boston University, 1932	*Milford, Mass.*
Callaghan, Thomas Augustin, B.S., Hy. Colby, 1923	*Willimantic, Conn.*
Chambers, Kathleen Rosalind, A.B., Eh. Barnard, 1929	*Ocean Park*
Chase, Lunette Adeline, B.S. in Ed., Ed. Stroudsburg Teachers College, 1933	*Stroudsburg, Pa.*
Clark, Arthur Donald, B.S., Ed. Colby, 1928	*Caratunk*
Clark, Frederick William, B.A., Hy. Amherst, 1932	*Meriden, Conn.*
Coady, Donald Lewis, B.S., Ed. Maine, 1921	*Old Town*
Cohen, Roy Mayer, A.B., Py. Harvard, 1936	***Brooklyn, N. Y.***
Crossland, Charles Edward, B.S., Es. Maine, 1917	*Orono*
Cunningham, George Snowdeal, B.A. in Ed., Ed. Maine, 1933	*Whitefield*
Cutts, Cecil Jewett, B.A., Ed. Maine, 1934	*Portland*
Desjardins, Lionel Louis, B.A., Ed. Maine, 1934	*Old Town*
Doe, Harold Oliver, B.A., Eh. Maine, 1935	*Bangor*
Elliott, Linwood Shaw, B.A., Hy. Maine, 1932	*Portland*
Emerson, Lelia Ethelind, A.B., Eh. Bates, 1925	*Buck's Harbor*
Farrington, Ervin S., B.S., Ed. University of New Hampshire, 1932	*Windsor, Conn.*
Farris, William Meloy, B.S. in Ed., Ed. Boston University, 1935	*Stockton Springs*
Flynt, Willard Curtis, A.B., Es. Colby, 1934	*Oakfield*

Gale, Nellie I., B.S. in Ed., Ed. *Bangor*
Maine, 1933
Geary, George Kenneth, A.B., Eh. *Portland*
Norwich University, 1932
Gilmour, Margaret Thayer, A.B., Ed. *Lubec*
Colby, 1924
Gordon, Adelaide Stone, B.S., Ed. *Salisbury, Conn.*
Colby, 1926
Gould, Gladys Marie, B.S., Ed. *Milo*
Maine, 1922
Grant, Wendell Russell, B.S., Ed. *New Limerick*
Colby, 1928
Groves, Laurence Wade, B.A., Ed. *East Millinocket*
Maine, 1931

Hallett, Muriel Barbara, A.B., Ed. *Houlton*
Colby, 1933
Hamilton, Leita French, B.A., Hy. *Memphis, Tenn.*
Maine, 1927
Higgins, Howard Stover, B.B.A., LL.B., Ed. *Ellsworth*
Boston University, 1931, 1932
Hoctor, Cathryn Rita, B.S. in Ed., Ed. *Old Orchard Beach*
Maine, 1936
Hofsted, Eugene Albert, LL.B., B.A., Ed. *Poughkeepsie, N. Y.*
St. Lawrence, 1911; Maine, 1928
Hughes, Arvilla Jane, A.B., Eh. *Punxutawney, Pa.*
Allegheny, 1934
Huse, Marjorie Clara, A.B., Eh. *North Haven*
Brown University, 1933
Husson, Chesley Haywood, B.S. in Ed., Ed. *Bangor*
State Teachers College, Salem, 1926
Husson, George Edwin, B.S. in Ed., Ed. *Billerica, Mass.*
State Teachers College, Salem, 1935

Jenkins, Arland, A.B., Es. *Danforth*
Bates, 1928
Johnson, Margaret Elva, B.A., Ms. *Bangor*
Maine, 1927
Jones, Serena Frances, B.R.E., A.M., Ed. *Portsmouth, N. H.*
Boston University, 1925, 1928

Jordan, Ina, B.Ped., B.A., Hy. *Seal Harbor*
Maine, 1921, 1924

Kilburn, Frank MacCready, A.B., Ed. *Machias*
Cornell University, 1915

Kirkpatrick, Milton Byron, A.B., Ed. *Cazenovia, N. Y.*
Colgate University, 1933

Lépine, Jeanne, B.A., Fr. *Biddeford*
Maine, 1932

Lindsey, Walter Kenneth, B.S., Ed. *Union*
Bates, 1932

Littlefield, Nellie, B.A., Ed. *North Berwick*
American International College, 1935

Loveitt, Rosella Adeline, B.A., Hy. *South Portland*
Maine, 1930

Lovely, Claude Gerald, B.S., Ed. *Old Town*
Maine, 1927

MacLaughlin, Marlin Vance, B.A., Ed. *Deep River, Conn.*
Maine, 1927

McDonald, Leona Reed, B.A., Ed. *Lee*
Maine, 1925

McGaughy, Clifford Joseph, B.S., Ed. *Presque Isle*
Colby, 1929

McIntosh, Carolyn Elizabeth, B.A., Ed. *Bangor*
Maine, 1932

Mann, Bernard Jerome, B.A., Fr. *Bangor*
Maine, 1933

Maxwell, Marion Duxbury, B.S., Ed. *Willimantic, Conn.*
Syracuse, 1917

Michel, Grace, B.S. in Ed., Ed. *East Longmeadow, Mass.*
Westfield State Teachers College, 1934

Milhourn, Mildred Bertha, B.A., Ms. *Walton, N. Y.*
Keuka College, 1928

Monroe, Roy Howard, B.S., Ed. *Milo*
Maine, 1935

Morris, Esther Stowell, B.A., Ed. *Lansdowne, Pa.*
Swarthmore, 1917

Morrison, George Ira, B.S. in Ed., Ed. *Milford, Conn.*
Maine, 1936

Munyan, Viola Iydelle, B.S. in Ed., Ed. *Salem, Mass.*
Framingham State Teachers College, 1930

O'Brien, Helen Marie, A.B., Eh. *Somerville, Mass.*
Boston University, 1930

Ormsby, Persis, A.B., Ed. *West Townsend, Mass.*
Boston University, 1927

Page, Charles Everett, Jr., B.S. in Ed., Ed. *Bangor*
Maine, 1933

Patterson, Archibald Alexander, A.B., Es. *Brooklyn, N. Y.*
Hobart, 1935

Peck, Esther Alice, B.S. in Ed., Hy. *Mt. Carmel, Conn.*
Boston University, 1928

Perkins, Henry Girard, B.S., Ed. *West Brooksville, Mass.*
Maine, 1925

Porter, Horace Chase, B.A., Ed. *Searsport*
Maine, 1932

Powell, Floyd Llewellyn, B.S. in Ed., Ed. *Pittsfield*
Maine, 1935

Prescott, Herbert Leroy, A.B., Ed. *Bangor*
Bowdoin, 1930

Quinn, Marion Frances, B.S. in Ed., Ed. *Bangor*
Maine, 1933

Ranger, Ralph Augustine, B.S., Ed. *Fairfield*
Maine, 1921

Ray, Donna Avonelle, A.B., Hy. *Kellettville, Pa.*
Allegheny, 1933

Reary, Arthur Robert, B.S. in Ed., Ed. *Biglerville, Pa.*
Shippensburg Teachers College, 1933

Rhodes, Marion Ethel, B.S. in Ed., Ed. *Attleboro, Mass.*
Framingham State Teachers College, 1930

Royal, Florence Taylor, B.A., Ed. *Branford, Conn.*
Maine, 1911

Russell, John Weldon, B.S., Ed. *Millinocket*
Maine, 1932

Schulman, Milton Ronald, B.S., M.B.A., Ed. *Brooklyn, N. Y.*
New York University, 1932;
Harvard, 1934

Schwenk, Hilda, Ph.B., Ed. Muhlenberg College, 1934	*Boyertown, Pa.*
Scribner, Josephine Clark, A.B., Ed. Colby, 1908	*Newport*
Smith, Lucille Estelle, B.A., Ed. Maine, 1921	*Brewer*
Snow, Charles Augustus, B.A., Ed. Maine, 1920	*Fryeburg*
Spear, Earle Maynard, B.A., Ed. Maine, 1927	*Waldoboro*
Spear, Ross Patterson, B.A., Ms. Maine, 1930	*East Corinth*
Spinney, Leon Paul, A.B., Ed. Colby, 1911	*Brunswick*
Stackpole, Philip Angier, A.B., Py. Bates, 1930	*Bath*
Stinneford, Jessie Sturtevant, B.A., Ed. Maine, 1917	*Hampton, Va.*
Sweetser, Lawrence Richardson, B.S., Ed. Maine, 1932	*Presque Isle*
Tarbox, Fred August, B.S., Ed. Colby, 1923	*Calais*
Van Aller, Holger Harold, A.B., Ed. Antioch College, 1928	*Saratoga Springs, N. Y.*
Walker, Carleton Leslie, A.B., Ed. Bates, 1923	*Middletown, Conn.*
Wasley, Vashti, B.A., Ed. Pennsylvania State College, 1934	*Shenandoah, Pa.*
Welch, Evelyn Cecilia, B.S. in Ed., Ed. Simmons, 1934	*Bangor*
Wescourt, Emanuel, B.A., Ed. Syracuse, 1925	*Brooklyn, N. Y.*
Wilder, Carroll Fred, B.A., Ed. Maine, 1926	*Cape May Court House, N. J.*
Wilson, Blair Cochran, B.S., Ed. Maine, 1928	*Bath*
Winslow, Daphne Marguerite, B.A., Ed. Maine, 1927	*Rockland*

Winston, Henry Edmund, A.B., Ed. *Ft. Edward, N. Y.*
Holy Cross, 1917
Worcester, Frank Clark, B.A., Ed. *Cherryfield*
Maine, 1920
Worthington, Esther, B.S., Ed. *Morrisville, Vt.*
Rhode Island State College, 1930

Young, Gladys Evelyn, A.B., Ed. *Augusta*
Bates, 1930

OTHER SUMMER SESSION STUDENTS, 1936

Albee, Vina May *Ashville*
Alexander, Martha Gertrude, R.N. *Augusta*
Allen, Amy Juliet *Oakland*
Allen, Royce Page *Brewer*
Allen, Theresa Pretto *Bangor*
Anderson, Donald LeRoy, B.A. *Caribou*
Maine, 1935
Antworth, Ida *Waterville*
Arseneau, Melvina Elizabeth *Woodland*
Averill, Louise Hunt *Old Town*
Avery, Marguerite Lillian *Haverhill, Mass.*

Babcock, Arlene Evangeline *Bangor*
Bailey, Phyllis Mary *Princeton*
Baron, Dorothy *Lewiston*
Barrowclough, Edna Grace *Lewiston*
Bartlett, Edmund Hobart, B.A., M.A. *Poughkeepsie, N. Y.*
Maine, 1926, 1931
Barton, Lillian May *Lansdowne, Pa.*
Barton, Sara Anita *Lansdowne, Pa.*
Benn, Irene Woodward *Houlton*
Bezanson, Warren Benjamin, B.A. *West Hartford, Conn.*
Guilford College, 1934
Billings, Ronald Glendon *Exeter*
Black, Mary Elizabeth *Woodland*
Black, Phyllis Joan *Vinal Haven*
Black, Ruby Virginia *Woodfords*

Blackwood, Helen Russell, A.B., A.M. *Charleston, W. Va.*
Marshall College, 1923;
University of Michigan, 1926
Blaisdell, Perley Elwell *Blaine*
Blaisdell, Tedford Madison *Franklin*
Blood, Elson Richard *Belfast*
Borland, Helen Louise, Litt.B. *Rockland, Pa.*
Grove City, 1929
Bouchard, Aurore *Madawaska*
Bowen, Linwood Jules, B.S., M.S. *Bangor*
Maine, 1932; University of
New Hampshire, 1935
Boynton, Evelyn Frances *Millinocket*
Bridges, Homer Lee *Sedgwick*
Brown, Carolyn May *Skowhegan*
Brown, Donald Marshall *Marion, Conn.*
Brown, Edwin Alvin *Bangor*
Brush, Edward Newcomb, A.B., A.M., *Orono*
Ph.D.
Vermont, 1925; Harvard, 1926, 1932
Brush, Lillian Hatfield, A.B., M.A., Ph.D. *Orono*
Lake Forest University, 1923;
University of Illinois, 1924;
Cornell, 1928
Bryan, Noah Rosenberger, B.A., A.M., *Orono*
Ph.D.
Pennsylvania State, 1913;
University of Pennsylvania, 1918;
Columbia University, 1921
Buck, Madeline Olive *Stetson*
Bunker, Katherine Cook *Calais*
Burghardt, Roy Corwin, A.B., A.M. *Mt. Lebanon, Pa.*
Dartmouth, 1916; Columbia, 1923
Burnett, Melbourne James *South Portland*
Butterfield, Margaret Florence, A.B. *Bangor*
Bates, 1931

Caldwell, Hugh Standish *Biddeford*
Caldwell, John Carroll, B.A. *Island Falls*
Maine, 1928
Calhoun, Gertrude Eleanor *Springdale, Conn.*

Campbell, Morris O'Brien, Jr.	*Wellesley, Mass.*
Canon, Bertha Violet, A.B. Smith, 1912	*Middlefield, Conn.*
Carmichael, Marie	*Monticello*
Carter, Bertha Wheeler	*Etna*
Carter, Lula Cecilia	*Brewer*
Casey, Charlotte Belcher, B.S. Massachusetts State, 1935	*Easthampton, Mass.*
Chambers, Kathleen Rosalind, A.B. Barnard, 1929	*Ocean Park*
Chapman, Paul S.	*Bethel*
Chase, Richard Getchell	*Orono*
Clark, John Tolman	*Portland*
Clements, Gladys Viola	*Belfast*
Clemons, Eleanor	*Lee*
Cline, Marjorie Emma	*Islip, N. Y.*
Cole, Kathryn Louise, A.B., Ed.M. Allegheny, 1934; University of Pittsburgh, 1936	*Punxsutawney, Pa.*
Cole, Marie Ethel	*Pittsburgh, Pa.*
Cole, Mary Ethel	*Pittsburgh, Pa.*
Collins, Caroline Christine	*Washington, D. C.*
Colton, Henry Douglas, B.S. Harvard, 1916	*Needham, Mass.*
Conary, Arthur Leon	*North Deer Isle*
Corbett, Barbara	*Orono*
Corbett, Robert Francis	*East Parsonsfield*
Corcoran, Patrick J.	*New London, Conn.*
Cowley, Eleanor Fritchman	*Cleveland Heights, O.*
Crane, Frederick Beach	*Afton, N. Y.*
Crawford, John Raymond, B.A., M.A., Ph.D. Culver-Stockton, 1924; State University of Iowa, 1929; 1931	*Orono*
Crimmins, George William, B.A. Maine, 1930	*Brunswick*
Crouse, Margaret Eleanor	*Crouseville*
Crowder, Albert Philip, Jr.	*Bangor*
Crowell, Alma Ann, R.N.	*Calais*
Crowley, Mary Cecelia, B.A. Maine, 1930	*Bangor*

Crozier, Freda Sara, B.A. Maine, 1931	*Brownville*
Culver, Lola Murch	*Jacksonville, Fla.*
Cummings, Helen, Jr.	*Skowhegan*
Currie, Mary Elizabeth	*Deming, N. Mex.*
Curry, Velva Pearle, R.N.	*Caribou*
Dalot, Virginia Hathaway	*Addison*
Davies, Clare Winifred	*Orono*
Davis, Evangeline Rosamond	*West Jonesport*
Davis, Marguerite Alma	*Old Town*
Day, Charlotte Usher	*Princeton*
Day, Frank Almore	*Princeton*
Day, Pauline Austin	*Ellsworth*
Delano, Audrey Emma	*Milo*
Dennison, Ruth	*Cutler*
Desjardins, Lionel Louis, B.A. Maine, 1934	*Old Town*
Dickinson, Alice Jesseman	*Orono*
Dingwall, Dorothy, A.B. Colby, 1933	*Presque Isle*
Donworth, Margaret Mary	*Machias*
Dow, Norman Roberts	*Augusta*
Drinkwater, Edna Antoinette	*Belfast*
Drisko, Frank Eugene	*Harrington*
Drummond, Pauline Louise	*Orono*
Dunbar, Marion Phoebe	*Belfast*
Duncan, John Kenneth	*Howland*
Eames, Butler Matthews	*Hartford, Conn.*
Eastman, Eleanor	*Wollaston, Mass.*
Edwards, Walter Emerson	*Bangor*
Eldridge, Burton David	*Orono*
Elie, Marguerite Helen, R.N.	*Lewiston*
Elsemore, Loring LeRoy	*Hancock*
Emery, Mark Peter	*Bangor*
Epstein, Lucille Mae	*Bangor*
Epstein, Marjorie Mae	*Bangor*
Everett, Josephine Mary	*Burlington, Vt.*
Fanning, Hannah Balch	*Lubec*
Farnham, Raymond Willard, B.S. Colby, 1936	*Brownville*

Fish, Lincoln	*Concord, Mass.*
Fisher, Beth Arolyn	*Pembroke*
FitzMorris, Sylvia Anne	*Ellsworth Falls*
Fogg, Gertrude Emeline	*Bangor*
Foley, Elizabeth Emma	*Woodland*
Forchheimer, Estelle, B.A., Pd.M., B.S., Ph.D. Hunter, 1893; New York University, 1896, 1915, 1919	*New York, N. Y.*
Foss, Jane Barbara	*Freeport*
Foster, Harry Kittredge, B.S. Bates, 1934	*Canton*
Foster, Ralph Leo	*Frenchville*
Foster, William Charles, B.S. Colby, 1932	*Princeton*
Fowler, Leonard William	*Blue Hill*
Fowlie, Howard Douglas	*Freedom*
Fox, Eleanor Willis, A.B. Hood College, 1924	*Church Creek, Md.*
Franklin, Margaret Brown	*Ellsworth*
Franklin, Mary Eunice	*Ellsworth*
Frazier, Harriet Louise	*Middletown, Conn.*
Furrow, Norman Gerad	*Bangor*
Gailey, Raymond Henry	*Portland*
Gardner, Millie Blanche	*Butler, Pa.*
Gellerson, Averill Dutton, A.B. Colby, 1933	*Houlton*
Gibbons, Mary Teresa	*Bangor*
Gilliland, William Lester, B.S., M.S., Ph.D. University of Washington, 1920, 1921; Massachusetts Institute of Technology, 1925	*Orono*
Given, Paul Robert Richard, A.B. Colby, 1932	*Richmond*
Given, Thersa Brown	*Richmond*
Gleason, Magnus Clyde	*Glens Falls, N. Y.*
Gleszer, Roland Merrill	*Bangor*
Golden, Evelyn Gertrude	*Bangor*
Goldstein, Alexander	*Brooklyn, N. Y.*
Gondela, Felix John	*Waterville*
Good, Ruth Ellen	*Monticello*

Goode, Marjorie Gwendolyn	*Bangor*
Goodness, Harold	*Watertown, N. Y.*
Goodwin, Florence Avdelle	*Portland*
Goodwin, Merle Stanley	*East Corinth*
Grant, Agnes MacGregor, A.B., A.M. Barnard, 1924; Columbia, 1925	*Yonkers, N. Y.*
Grant, Charles Lewis	*Friendship*
Grant, Dorothy Carolyn	*Yarmouth*
Gray, Harriet Ballard	*Guilford*
Gray, Lester Colby	*Bucksport*
Green, Sybil Kent	*Orono*
Greenwell, Margaret Ellen	*Honolulu, Hawaii*
Griffin, William Frank	*Pittsfield*
Guild, Mary Andrews	*Fort Fairfield*
Gustin, Dorothy Ida	*Houlton*
Hahn, Helen Moister	*Greenwich, Conn.*
Haigis, Pearl Janet	*Foxboro, Mass.*
Hall, Roscoe Bowers	*West Baldwin*
Hallett, Millie Beryle, R.N.	*Bangor*
Ham, Harriet Kittredge	*Cambridge*
Hamilton, Charles Grant, B.A., B.D., S.T.M., B.S. in L.S. Maine, 1928; Bangor Theological Seminary, 1928; Boston University, 1930; Syracuse University, 1931	*Memphis, Tenn.*
Hamilton, Herbert Kurt	*New York, N. Y.*
Hamm, Charlotte Cross	*South Paris*
Hammond, Grace Thompson, B.A. Elmira College, 1926	*Angelica, N. Y.*
Hand, Bayard Richardson	*Northeast Harbor*
Hanscom, Dorothy Jean, A.B. Bates, 1930	*Bethel*
Hanson, Natalie Florence	*Newport*
Hardy, Alice Belle	*Providence, R. I.*
Harper, Olive Alexine	*Philadelphia, Pa.*
Harris, Geraldine M.	*Glens Falls, N. Y.*
Harris, Robert Tyler	*Salem, Mass.*
Harvey, Ilga Frances, A.B., LL.B. Wesleyan, 1906, 1930	*New Britain, Conn.*
Hasbrook, Clinton Frederick, B.S. University of Vermont, 1912	*Hartford, Conn.*

Haskell, Stuart Phelps	*Lee*
Hastings, Madeline	*Montpelier, Vt.*
Hayes, Frances Osgood, A.B. Wheaton, 1935	*Bangor*
Hayes, Prudence Elaine, B.A. Maine, 1935	*Orono*
Heath, Doris Sheldon	*Ellsworth*
Heath, Julia Brown	*Ellsworth*
Heck, Helen Henderson	*Glenside, Pa.*
Henderson, Elsie May	*Norwell, Mass.*
Hersey, Lilla Clarke, B.A., A.M. Maine, 1921; Columbia, 1927	*Bangor*
Higgins, Elizabeth Blanche	*Bar Harbor*
Higgins, Elizabeth Whitney, A.B. Middlebury College, 1935	*Southbridge, Mass.*
Higgins, Mae	*Dennysville*
Hilton, Ethel Mary, B.S. Maine, 1932	*Athens*
Hinckley, Roxanna Curtis	*Bluehill*
Hitchings, Everett Loring	*Calais*
Hodgman, Grace Eunice	*Turner Center*
Hofmann, Corris Mabelle	*Plainville, Mass.*
Hogestyn, Grace Johanna	*Rochester, N. Y.*
Holmes, Carleton Jerome, B.S. Colby, 1933	*Lincoln*
Holst, Kjell Bernhard	*Oslo, Norway*
Hopkins, Florence Anna, A.B., A.M. Connecticut College for Women, 1923; Columbia, 1924	*Torrington, Conn.*
Hopkinson, Maxine, A.B. Bates, 1934	*Westbrook*
Huggins, Mary	*Malabar, Fla.*
Hulbert, Lillian Edith	*East Franklin*
Hunnewell, Alice Frances	*Augusta*
Hunnewell, William French	*Madison*
Hunt, William Harry	*Augusta*
Hurley, Mamie Florence	*Kittery*
Hurlin, Marshall Wentworth, A.B., A.M. Bowdoin, 1920; Teachers College, Columbia, 1926	*Norwalk, Conn.*

Igoe, Claire Genevieve, B.S. in Ed. Boston University, 1928	*North Brookfield, Mass.*
Ingalls, Albina	*Bradford*
Ingalls, Farrell Carleton	*Carmel*
Jackson, Ethel, Ph.B., A.M. University of Chicago, 1922; Teachers College, Columbia, 1926	*Charleston, W. Va.*
Jellison, Howard Lazier	*Surry*
Johnson, Harry Agnew	*Northborough, Mass.*
Johnson, Mildred Ruth	*Caribou*
Johnston, Jacqueline Hilda	*Bangor*
Johnstone, Kenneth Horace	*Portland*
Jones, Errald Gordon	*Brownville*
Jones, James Earle	*Hartford, Conn.*
Jordan, Darrel Francis	*Orono*
Juster, Fannie, B.S. New York University, 1930	*Hartford, Conn.*
Kalnin, Charles Henry, Jr.	*LaGrange*
Keating, Anna Josephine, B.A. Maine, 1921	*Camden*
Kelley, Daniel Lenhart	*Eastport*
Kent, Frank Holmes	*Springfield*
Keresey, Thomas Edward	*Gardner, Mass.*
Kimball, Ober Whitcomb	*Waterville*
King, Frances Edith	*Bethel*
Kinloch, Lucy Margaret	*Brooklyn, N. Y.*
Kirk, Dorothy Ida, B.S. in He. Buffalo State Teachers College, 1934	*Ebenezer, N. Y.*
Kline, Carrie Blanche, A.B. Marshall College, 1928	*Milton, W. Va.*
Knight, Frances Silsby	*Derby*
Lafleur, Sister Augustine	*Lewiston*
LaGassey, Ethelyn Mary	*Millinocket*
Landers, Albert Schoppe, 3rd	*Bangor*
Langan, William Bernard, B.S. St. Thomas College, 1936	*Hawley, Pa.*
Langley, Florence, B.S. Simmons, 1928	*Wilmot, N. H.*

Lawhon, Anne Porter	*El Paso, Tex.*
LeClair, Jacqueline Lenore, R.N.	*Waterville*
Leonard, Florence, B.S. Farmington Teachers College	*LaGrange*
Leslie, Phyllis Elizabeth	*Kittery*
Levenson, Roger	*Bangor*
Lewis, Jessica	*Salsbury Cove*
Lewis, Ruth Edith	*Springfield*
Leyonborg, Clara Wilhelmena	*Liberty*
Libby, Nancy Dorothea, A.B. Colby, 1936	*Augusta*
Loveitt, Lillian Frances, B.A. Maine, 1930	*South Portland*
Lowell, Roger Dwight, A.B. Bowdoin, 1933	*Lee*
Lunn, Hazel Elizabeth	*Milltown*
Lymburner, Paul Smith	*Sargentville*
Lyons, Elizabeth Pearl, B.A., M.A. Syracuse University, 1922, 1926	*Canandaigua, N. Y.*
MacCormack, Henry Edward, B.S. St. Thomas College, 1935	*Dalton, Pa.*
MacDougall, Mary Blanche	*Bangor*
MacKenzie, Bernard Alexander	*Danforth*
MacLauchlan, Harold Edwyn	*Addison*
McCabe, Winifred Assumpta, B.E. Boston Teachers College, 1927	*Roslindale, Mass.*
McCloskey, Francis Hartley	*Howland*
McCobb, Helen Gertrude	*Center Lincoln*
McGrath, Noreen	*Bangor*
McIntosh, Ada Viola	*Houlton*
McKenney, Ned Burr	*Easthampton, Mass.*
McLaughlin, Lena May	*Caribou*
McLaughlin, Ruth Helen	*Washburn*
McLean, James Allan	*Bangor*
McLean, Mary Donworth	*Bangor*
McLin, William Hellen	*Dennis Port, Mass.*
McPhee, Clement Spurgeon, Jr.	*Providence, R. I.*
McPheters, Leonard Lamont	*Bangor*
McTague, Frank Cyril, Jr.	*Long Island, N. Y.*

Madden, Veda Thomas	*Milford*
Maddocks, Lylla Sprague	*Belfast*
Mader, George Holland	*Beverly, Mass.*
Maki, Aili Anna Kaariina, R.N.	*Portland*
Malcolm, Leon Tibbetts	*Augusta*
Mann, Ivie Wendall	*South Brewer*
Marston, Ruth	*Waterville*
Martin, Anne McManus	*Eagle Lake*
Mason, Alice Eliza, B.A. Maine, 1922	*Mt. Desert*
Mathews, Edna Elizabeth	*Cherryfield*
Maxwell, Margaret	*Bangor*
May, Madeleine Elizabeth	*Brooklyn, N. Y.*
Merrifield, Arthur Lewis, B.S. Maine, 1933	*Stoneham, Mass.*
Merrill, Stephen Evans, B.S. Bowdoin, 1936	*Skowhegan*
Miller, Roy Leighton	*Quincy, Mass.*
Mosher, Howard Cornell	*Stillwater*
Mullaney, Joseph Frederick	*Scranton, Pa.*
Munich, Jennie Eldredge	*Bridgeport, Conn.*
Murphy, Donald Joseph, B.A. Maine, 1935	*Berlin, N. H.*
Neale, Leander Martin	*East Machias*
Nelson, Basil St. Clair	*East Millinocket*
Nelson, Pearl Astrid	*Waltham, Mass.*
Newell, Raymond Franklin, B.S. Maine, 1933	*Bangor*
Newman, Theresa Rose, B.A. Hunter College, 1926	*New York, N. Y.*
Nichols, Eda Louise, B.L.I. Emerson College, 1921	*New York, N. Y.*
Nickerson, Alvah Lewis	*Damariscotta*
Nickerson, Pauline Gordon	*Damariscotta*
Nickerson, Thomas Henry	*Bangor*
Nightingale, Lewis Alden	*Fort Fairfield*
Norwood, James Franklin	*Southwest Harbor*
O'Connell, Lawrence Joseph, B.S. Maine, 1934	*Orono*

O'Donnell, Margaret Frances, R.N.	*Portland*
Olson, Hildur Roseline, R.N.	*Stockholm*
Oxner, Karl Robert	*South Berwick*
Page, David Donnell	*Fort Kent*
Page, Leonard Cleveland	*Orono*
Page, Madllyn-Loy, B.M. Boston University, 1936	*Orono*
Palmer, Paul Kendall	*Nobleboro*
Pancok, Louis Henry, B.S., A.M. University of Wisconsin, 1920; University of Chicago, 1931	*St. Louis, Mo.*
Paradis, Sister Evangeline	*Lewiston*
Parker, Sallie Philips	*Richmond, Va.*
Patterson, Anna Jane, A.B. New York University, 1936	*Brooklyn, N. Y.*
Patterson, Constance Winslow	*Oriskany, N. Y.*
Penney, Clarice Young, B.L.I. Emerson College, 1933	*Orono*
Perry, Lou Ann	*Bangor*
Peterson, Philip Francis	*Caribou*
Picher, Bella Marie, R.N.	*Waterville*
Pike, Sara Comfort	*East Woodstock, Conn.*
Pollard, David Henry, Jr., A.B., M.A. Columbia, 1932; Teachers College, Columbia, 1934	*Norwalk, Conn.*
Poltrack, Adeline Olive	*Stamford, Conn.*
Prehm, Mary Helen	*Eagle Grove, Iowa*
Proctor, Dewing	*Portland*
Purcell, Laura Annie, R.N.	*Bangor*
Raby, Adrienne Marie, A.B., LL.B. Smith, 1914, 1930	*New Britain, Conn.*
Rainey, Louvie Beatrice	*Frankfort*
Raymond, Arthur Alton	*Clinton*
Reberry, Minnie Eleta, B.S. in Ed. Southwest State Teachers College, Springfield, Mo., 1929	*Deming, N. Mex.*
Reid, Mary Louise	*Bangor*
Reynolds, Elizabeth Ashworth, B.C. Sc. Bryant College, 1931	*Central Falls, R. I.*

Reynolds, Lucile De, A.B. Ohio State University, 1917	*Newport*
Ripley, Helen L., A.B. New York State College, 1927	*Ithaca, N. Y.*
Ripley, Lucinda Elizabeth, B.A. Maine, 1935	*South Paris*
Roach, Asa Hudson	*Smyrna Mills*
Robinson, Bertha May	*Cambridge, Md.*
Ross, Muriel Evelyn	*Sherbrooke, Que.*
Rowe, Ursula Dorene	*Aurora*
Rowley, Burrell Adams	*Arcade, N. Y.*
Royal, Floyd Chester	*Hodgdon*
Rubens, Harold	*LeRoy, N. Y.*
Runnells, Charlotte Gertrude	*Howland*
Russell, Sarah Louise	*Ellsworth*
Ryan, Hugh Edward, B.A. Maine, 1935	*Stamford, Conn.*
Sanborn, Jean Cummings	*Bangor*
Saunders, Wesleyan Bell	*New York, N. Y.*
Sawyer, Elcey	*Warren*
Sawyer, Milford George	*Millbridge*
Schaub, Blanch	*Pittsburgh, Pa.*
Searle, Dorothy Alix	*Riverside, Conn.*
Seavey, Barbara Eunice	*Bangor*
Shanley, Grace Winifred	*Burlington, Vt.*
Sharpe, Elizabeth Alden	*Fort Fairfield*
Shesong, Faith Lovejoy	*Portland*
Shirley, Regina Hartling, R.N.	*South Brewer*
Silk, Ernest Samuel, A.B., M.S. Yale, 1926, 1931	*New Haven, Conn.*
Silver, Dorothy	*Bangor*
Skinner, Eula May	*Waterville*
Sloane, Harold Martel, A.B. Holy Cross, 1930	*Hamden, Conn.*
Smart, Omar Collins	*Monroe*
Smith, Catherine Louise	*Cambridge, Mass.*
Smith, Elizabeth Jane, B.S.E. Framingham State Teachers College, 1934	*Dedham, Mass.*
Smith, Gladys Esther	*Bangor*
Snow, Edward Haskell, B.A. Maine, 1925	*Blue Hill*

Snow, Sydney Pillsbury, B.S Colby, 1928	*Rockport*
Soule, Laurence William	*Augusta*
Soule, Mary Morton, B.L.I. Emerson College, 1932	*Augusta*
Sprague, Elena Claire	*Bangor*
Spruill, Mary James, A.B., M.A. University of North Carolina, 1921, 1922	*Raleigh, N. C.*
Spurling, Marion Estelle	*Islesford*
Stairs, Erma Mae	*Washburn*
Stearns, Flora Morse	*Charlestown, N. H.*
Stearns, Mildred Greenwood	*Charlestown, N. H.*
Steere, Amey, Ph.B. Brown, 1922	*Providence, R. I.*
Stineford, James Robert	*Brownville Jct.*
Strout, Francis Leroy	*Milbridge*
Sturke, Ralph Chester	*Pembroke*
Sullivan, Marion Elizabeth	*Portland*
Swan, Clara Lincoln	*Bangor*
Thayer, Margaret Llewelyn	*Bangor*
Tasker, Doris Hunter, B.A. Maine, 1924	*Bradford*
Thibeau, Bernice Madeline	*Old Orchard Beach*
Thomas, Merrill	*Rumford*
Thompson, Bessie Lindsay, Ph.B., M.A. Muskingum College, 1913; University of Wisconsin, 1927	*Canton, O.*
Thompson, Florence Cole	*Bar Harbor*
Thompson, Mildred Ada	*Orono*
Tibbetts, Jason Richard	*Liberty*
Tobey, Madeline Geneva	*Kittery Point*
Tolman, Edward Wesley, B.A. Maine, 1930	*Carroll*
Treat, George Currier	*Bangor*
Trimble, Marion Alice	*Calais*
Tripp, Lelia Knowles	*Salsbury Cove*
Tripp, Lena Muriel	*Salsbury Cove*
True, Robert Moody	*Newburyport, Mass.*
Truesdell, Nelda Elizabeth, A.B. Coe College, 1931	*Rockwell City, Iowa*
Tuck, Alonzo Henry	*Stonington*

Umphrey, Donald Crouse	*Washburn*
Varney, Phyllis Fisher	*Pembroke*
Viner, Leo	*Bangor*
Vose, Edward Rich, B.S. Maine, 1930	*Miami, Fla.*
Waldron, Richard Shailer	*Dexter*
Walker, Raymond Everett	*Fryeburg*
Waterhouse, Frank Chester, B.A. Maine, 1933	*Old Town*
Webb, Arthur Alton	*Brooks*
Webber, Lewis Ervin	*Kingfield*
Wedge, Dorothy Elizabeth	*Bridgeport, Conn.*
Weeks, Helen Wilma	*Farmington*
Welbourne, Frances, B.Ed. Western Illinois State Teachers College, 1926	*Barry, Ill.*
West, James Raymond	*Bangor*
Wethey, Erma Leona, B.S. Keuka College, 1929	*Madison, N. Y.*
Weymouth, Florence Frances	*Bangor*
Weymouth, Frank Leslie Day, A.B. Clark University, 1925	*Boston, Mass.*
Weymouth, Hildred Lillias	*Gardiner*
Wheeler, Helen Hanson	*Olamon*
Whitcomb, Eleanor Arlenza, R.N.	*Auburn*
White, Barbara Zerua, A.B. Colby, 1934	*East Dixfield*
White, Bertha Keenan	*St. Johnsbury, Vt.*
White, Pauline Alta	*Lubec*
Whitman, William Parsons	*Belfast*
Whitmore, Hazel Robinson	*Dexter*
Whitmore, Mildred Emma	*Dexter*
Whitney, Marian Hale, R.N.	*Portland*
Wilder, Minne Wyman	*Concord, N. H.*
Winston, Cecelia Mary	*Fort Edward, N. Y.*
Wood, Colby Norris	*Ellsworth*
Wood, Margaret Crosskill	*Presque Isle*
Wooster, Julia Ethel	*Bridgeport, Conn.*
Wormlight, Verner John, LL.B. American Extension University, 1931	*Brooks*

Worthen, Jennie Ingraham	*East Corinth*
Worthing, Freda Marion	*Palermo*
Wylie, Austin Warner	*Madawaska*
Wylie, John David	*Madawaska*
Young, Agnes Mildred, B.E., Ed.M. Boston University, 1926, 1936	*Ellsworth*
Young, Dorothy Matian	*Lincolnville*
Young, Mary Gwendolyn, R.N.	*Portland*

Summary of Student Enrollment

1936-1937

	Total	Men	Women
Graduates	44	34	10
Seniors	282	206	76
Juniors	361	263	98
Sophomores	354	243	111
Freshmen	479	365	114
Specials	29	23	6
Upperclass students conditioned for admission	7	5	2
Two-Year Agriculture			
1st year	38	38	—
2nd year	5	5	—
Short Courses in Agriculture	21	19	2
	1620	1201	419
Summer Session	532	219	313
Grand Total (omitting duplicates in Summer Session)	2097	1390	707

Classification by Colleges

Graduate Study	44	34	10
College of Agriculture	574	420	154
College of Arts and Sciences	554	327	227
College of Technology	398	398	—
School of Education	50	22	28
	1620	1201	419

Candidates for Degrees

Graduate Study	42	33	9
College of Agriculture	506	355	151
College of Arts and Sciences	537	313	224

College of Technology	392	392	—
School of Education	48	22	26
	1525	1115	410

Classification by Residence

Maine, by counties:		
Androscoggin	53	
Aroostook	178	
Cumberland	202	
Franklin	21	
Hancock	102	
Kennebec	93	
Knox	54	
Lincoln	32	
Oxford	57	
Penobscot	491	
Piscataquis	39	
Sagadahoc	26	
Somerset	39	
Waldo	61	
Washington	86	
York	76	
Maine		1610
Massachusetts		219
New York		80
Connecticut		63
Pennsylvania		23
New Jersey		16
New Hampshire		14
Rhode Island		13
Vermont		12
Florida		5
Iowa		3
Ohio		3
Virginia		3
West Virginia		3
California		2
District of Columbia		2
Illinois		2

Maryland	2	
New Mexico	2	
Tennessee	2	
Michigan	1	
Minnesota	1	
Missouri	1	
North Carolina	1	
Texas	1	
Wisconsin	1	
Canada	9	
Canal Zone	1	
Hawaii	1	
Norway	1	
		2097

Directory of Faculty Names

(Including Administrative Officers)

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